AV Receiver System
user manual

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SAMSUNG

Safety Information

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK). NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.
	This symbol indicates important instructions accompanying the product.

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

CAUTION

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

FCC NOTE (FOR U.S.A):

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution : FCC regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

License

- Manufactured under license from Dolby Laboratories. Dolby, Pro Logic and the double-D symbol are trademarks of Dolby Laboratories.
- Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS and the Symbol are registered trademarks, & DTS-HD, DTS-HD Master Audio, and the DTS logos are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:
FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth an uncontrolled environment.
This equipment should be installed and operated with minimum distance 7.9 inches between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Canadian Department of Communications Radio Interference Regulations

This digital apparatus (Wireless Internet Radio) does not exceed the Class B limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

1) Read these instructions.
2) Keep these Instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachment/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Safety Information

Precautions

- Ensure that the AC power supply in your house complies with specifications listed on the identification sticker located on the back of your product.

- Install your product horizontally, on a suitable base (furniture), with enough space around it for ventilation (7.5~10cm / 20~25 inches).

- Do not place the product on amplifiers or other equipment which may become hot.
  Make sure the ventilation slots are not covered.

- Do not stack anything on top of the product.

- To disconnect the product completely from the power supply, remove its plug from the wall outlet.
  - If you leave the product unused for a long period of time, disconnect the plug from the wall outlet.

- During thunderstorms, disconnect the AC plug from the wall outlet. Voltage spikes caused by lightning could damage the product.

- Do not expose the product to direct sunlight or other heat sources. This could cause the product to overheat and malfunction.

- Protect the product from moisture, excess heat, and equipment creating strong magnetic or electric fields (i.e. speakers.).

- Disconnect the power cable from the AC supply if the product malfunctions.

- Your product is not intended for industrial use. It is for personal use only.

- Condensation may occur if you store your product in cold temperatures. If transporting the product during the winter, wait approximately 2 hours until the product has reached room temperature before using.

- The batteries used with this product contain chemicals that are harmful to the environment.
  Do not dispose of batteries in the general household trash.

Contents

ENGLISH

Contents

● Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance.

Getting Started

Key features of your new AV Receiver

Product Features

Digital AV Receiver
This product is a pure digital AV receiver that performs digital signal processing to minimize signal distortion and loss.

Dolby Digital
Effective audio encoding/decoding technology that provides a vivid surround sound in up to 5.1 channels.

Dolby Pro Logic IIx
Dolby Pro Logic IIx is a new technology that provides discrete 7.1 channels out of 2 channel or multi channel sources.It also provides Music,Movie and Game modes.
Dolby Pro Logic IIx is an improved surround system that is optimized to a 7.1 CH multimedia system, enabling you to maximize your entertainment experience.

Dolby Pro Logic IIz
Dolby Pro Logic IIz adds front height channels to surround sound, creating a 7.1 playback system for video games, home music, and movies; bringing enhanced spatial effects and enveloping sound.

Dolby Digital EX
Adds a surround back channel for more spacious sound compared to regular 5.1 channel Dolby Digital.

Dolby Digital Plus
Dolby Digital Plus is the next-generation audio technology for all high-definition programming and media.

Dolby True-HD
Dolby True-HD is Dolby's next-generation lossless technology developed for high-definition disc-based media.

DTS 96/24
DTS 96/24 encodes standard 16 bit/44.1 kHz sound to 24 bit/96kHz and applies it to a 5.1 CH sound track.

DTS (Digital Theater Systems)
DTS provides a discrete 5.1 CH digital audio signal for both music and movie contents and uses less compression than Dolby Digital for richer sound.

DTS-HD (Master Audio, High Resolution)
(Digital Theater Systems - High Definition)
DTS-HD Audio provides the highest quality multi-channel sound possible.
It delivers sound quality that matches the clear and vivid images of high-definition video.

DTS NEO:6
Provides a full range of 6 channels by converting a digital PCM or analog stereo signal using DTS digital matrix decoding.

DTS-ES (Extended Surround)

The DTS-ES (Extended Surround) system is a new multi digital signal format that was developed by Digital Theater Systems Inc.
Supporting full compatibility with the conventional DTS digital surround sound format, the
DTS-ES (Extended Surround) system improves the surround signal for a 360-degree surround effect.
DTS-ES adds an additional rear center surround channel for 6.1 channel sound.

EXTENDED dts ES SURROUND

iPod

You can enjoy music files by connecting your iPod/iPhone to the AV Receiver with the supplied iPod dock.

Made for iPod iPhone

SFE (Sound Field Effect) Using 32bit Audio Digital Signal Processing

Provides more realistic surround sound with normal stereo audio sources.

Anynet+ (HDMI-CEC) Function

Anynet+ is a function that can be used to operate this AV Receiver with a Samsung TV remote control, by connecting the receiver to a SAMSUNG TV using an HDMI Cable. (This function is available only in connection with Samsung TV and DVD player supporting Anynet+(HDMI-CEC).)

Accessories

Check the box for the supplied accessories listed below.
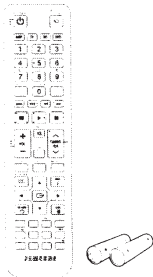
| Remote Control (AH59-02370A)/ Batteries (AAA size) (4301-000116) | FM antenna (AH42-00017A) | User's manual (AH68-02354X) | iPod Dock (AH96-00051A) | ASC microphone (AH30-00099A) |
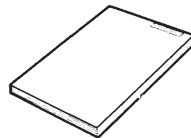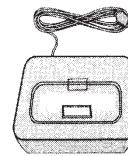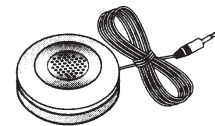
Description

Front Panel

1	INPUT SELECT CONTROL	Used to select a source. FM → TV → BD/DVD → SAT → GAME → AUX → CD → IPOD AUDIO → IPOD VIDEO
2	SETUP BUTTON	Displays the SETUP menu.
3	AUDIO ASSIGN BUTTON	Toggles to select an input mode for the selected source.
4	AUDIO EFFECT BUTTON	Toggles to select a surround sound mode.
5	3D SOUND BUTTON	Press to apply 3D Sound effect.
6	DISPLAY	Displays the speaker/audio input status, listening mode, etc.
7	UP(∧), DOWN(∨), LEFT(<), RIGHT(>) BUTTONS	Used to move the cursor up, down, left or right. Also used to select detailed options in the AUDIO EFFECT mode and to change the tone level.
8	Bi-AMP INDICATOR	The indicator lights on when you turn on Bi-AMP.
9	ENTER BUTTON	Used to select an item in the SETUP menu.
10	TONE CONTROL BUTTON	Used to set the bass, treble level and tone to on/off.
11	ASC BUTTON	Used to select the auto calibration mode.
12	MASTER VOLUME CONTROL	Adjusts the volume level.
13	POWER BUTTON (⏻)	Turns the receiver on/off.

[14]	PHONES JACK	Used to connect a set of headphones.
[15]	AUX IN JACKS	Auxiliary AV input terminals used to connect a camcorder, portable DVD player or gaming device.
[16]	ASC MIC JACK	Used to connect the ASC MIC for setting up Auto calibration.
[17]	RETURN BUTTON	Return to the previous menu.
[18]	AV SYNC BUTTON	Used to select the Audio Delay Mode.
[19]	TUNING MODE BUTTON	Used to select the Manual or Preset mode for FM radio.
[20]	SELECT BUTTON	Used to change the radio frequency.
[21]	TUNER MEMORY BUTTON	Used to set a preset radio frequency.
[22]	S.DIRECT BUTTON	Used to select the S.DIRECT mode. (Output the original signal as it is without applying the sound field effect or any other sound effect.)

Display
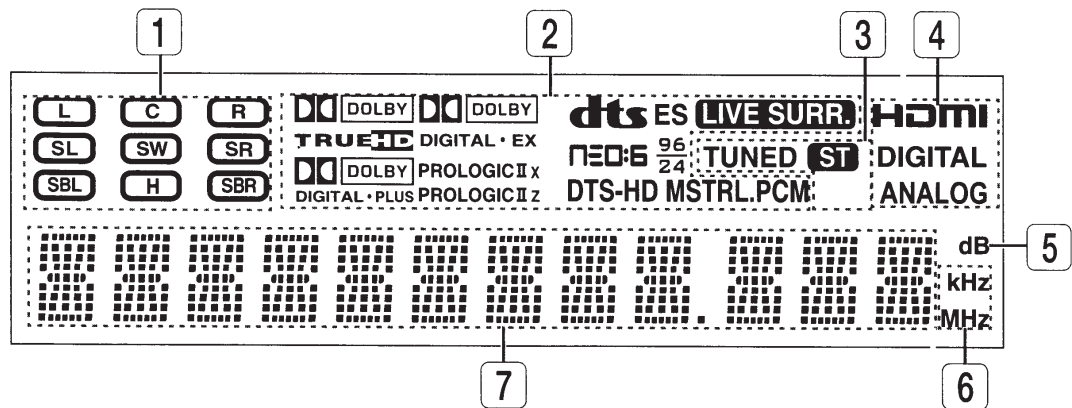
[1]	SPEAKER INDICATORS	Displays sound producing speakers.
[2]	LISTENING MODE INDICATORS	Displays the current listening mode and audio source.
[3]	TUNING INDICATORS	Displays the status of the current radio broadcast.
[4]	AUDIO INPUT INDICATORS	Displays the audio input signal type of the currently connected external audio source.
[5]	SPEAKER LEVEL INDICATOR	Displays the speaker level.
[6]	RADIO FREQUENCY INDICATORS	Displays the current radio frequency range.
[7]	MESSAGE DISPLAY	Informs you of the status of the receiver.

10 English

Rear Panel
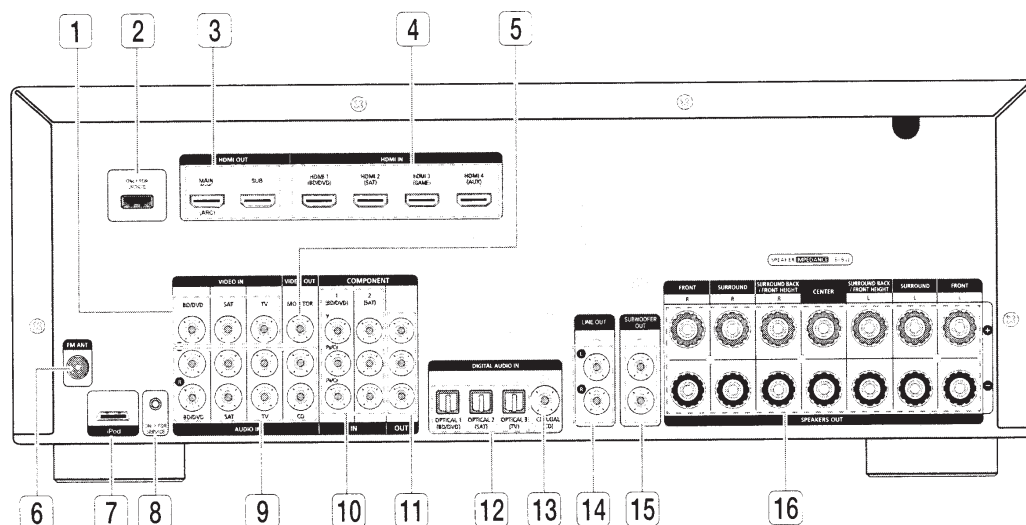
[1]	VIDEO IN JACKS	Receives the video signal from a video player (BD/DVD, SAT, TV).
[2]	USB PORT	Can be only used for firmware upgrades.
[3]	HDMI OUT JACKS	Outputs digital video and audio signals simultaneously using an HDMI cable.
[4]	HDMI IN JACKS	Receives digital video and audio signals simultaneously using an HDMI cable.
[5]	VIDEO OUT JACK	Outputs the video signal to a monitors(TV, Projector etc).
[6]	FM ANTENNA JACK	Connect the FM antenna.
[7]	iPod JACK	Receives the audio/video signal from an iPod.
[8]	ONLY FOR SERVICE JACK	Used for the service repair.
[9]	AUDIO IN JACKS	Receives the audio signal from a video player (BD/DVD, SAT, TV).
[10]	COMPONENT VIDEO IN JACKS	Receives the component video signal.
[11]	COMPONENT VIDEO OUT JACKS	Outputs the component video signal.
[12]	OPTICAL IN JACKS (DIGITAL AUDIO IN)	Receives the digital optical audio signal.
[13]	COAXIAL IN JACK (DIGITAL AUDIO IN)	Receives the digital coaxial audio signal.
[14]	LINE OUT JACKS	Outputs the analog audio signal to the external amplifier. The digital signal output is not supported.
[15]	SUBWOOFER AUDIO OUT JACKS	Connect the subwoofers. (Active subwoofer only)
[16]	SPEAKERS OUT TERMINALS	Speaker connection terminals. The front speaker and surround back speaker ports can be connected to a speaker that supports bi-amplifying. For connecting to the bi-amplifier, refer to page 19.

Remote Control

Tour of the Remote Control

1	POWER BUTTON	Turns the receiver on/off.
2	TV BUTTON	To change to TV mode, press the TV button.
3	AMP BUTTON	To change to AMP mode, press the AMP button.
4	NUMBER BUTTONS	Used to select a TV channel.
5	NEO : 6 BUTTON	Select the desired NEO:6 mode.
6	PROLOGIC BUTTON	Select the desired Dolby Pro Logic audio mode.
7	SKIP BUTTONS	Press to skip backwards or forwards on a connected DVD/BD player or iPod.
8	STOP/PLAY BUTTON	Press to stop/start playback on a connected DVD/BD player or iPod.
9	MUTE BUTTON	Mutes the sound of a connected device.
10	VOLUME CONTROL BUTTONS	Adjusts the volume of the selected device.
11	MO/ST BUTTON	Select MONO or STEREO for radio broadcasts.
12	TONE BUTTON	You can adjust the bass and treble level.
13	SETUP/MENU BUTTON	Displays the SETUP menu.
14	UP/DOWN/LEFT/RIGHT BUTTONS	Used to navigate the menus.
15	RETURN BUTTON	Used to return to the previous menu from the SETUP menu.
16	FUNCTION SELECTOR BUTTONS	Used to select an input source.
17	AV SYNC BUTTON	Used to select the Audio Delay Mode.
18	ASC BUTTON	Used to set the Auto Sound Calibration function.
19	SUBWOOFER BUTTON	Used to select the Subwoofer.
20	INPUT SELECT, TV SOURCE BUTTON	Toggles to find and select an input source. Press to select a connected TV's video source.
21	BD BUTTON	To change to BD mode, press the BD button.
22	DVD BUTTON	To change to DVD mode, press the DVD button.
23	SLEEP BUTTON	Used to set the Sleep Timer.

[24]	DIMMER BUTTON	Adjusts the brightness of the display.
[25]	DSP BUTTON	Used to select the SFE mode.
[26]	AUDIO ASSIGN BUTTON	Toggles to select an input mode for the selected source.
[27]	SEARCH BUTTON	Press to search backwards or forwards.
[28]	PAUSE BUTTON	Pauses playback on a connected device.
[29]	TUNING/CHANNEL BUTTONS	Used to change the radio broadcasting frequency or TV channel.
[30]	S.DIRECT BUTTON	Press to select S.DIRECT mode.
[31]	TUNER MEMORY BUTTON	Used to set a preset radio frequency.
[32]	INFO BUTTON	Display information on the connected device currently being used.
[33]	ENTER BUTTON	Used to select an item in the SETUP menu.
[34]	EXIT BUTTON	Exits the SETUP menu.
[35]	3D SOUND BUTTON	Press to apply 3D Sound effect.
[36]	CROSS OVER BUTTON	Press to adjust the crossover frequency.

Installing batteries in the Remote Control

* Battery size: AAA
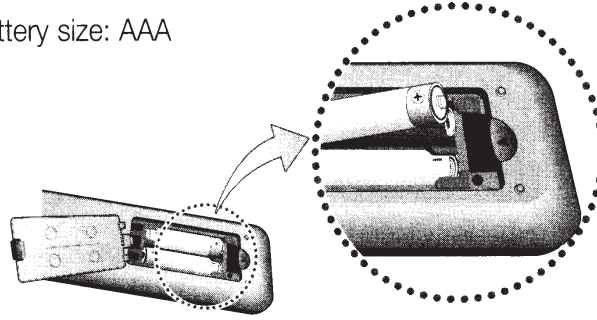
✎ NOTE

Follow these precautions to avoid leaking or cracking cells:

- Place batteries in the remote control so they match the polarity : (+) to (+) and (–) to (–).
- Assuming typical AVR usage, the batteries last for about one year.
- Use the correct type of batteries. Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose the batteries to heat or a flame.

Operation Range of the Remote Control

The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.

30° 30°
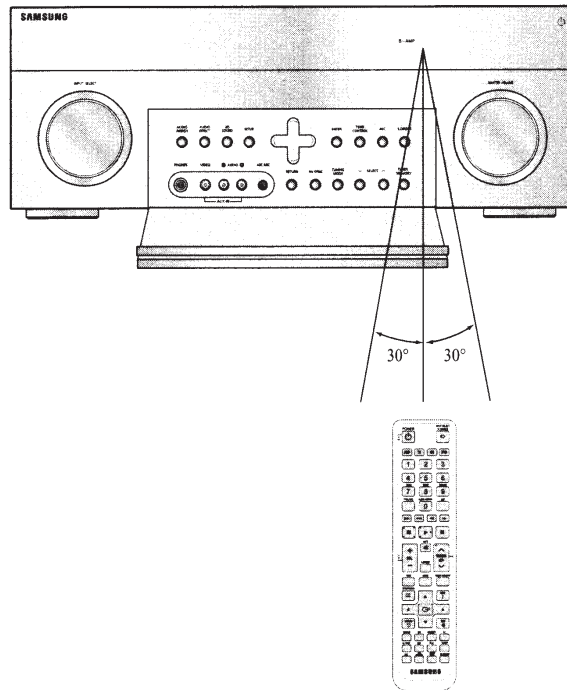
Connections

This section involves various methods of connecting the AV receiver to other external components.
Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

There are two methods for positioning the speakers.
When using Dolby Pro Logic IIz, place the Surround Back Speakers in the FHL, FHR position and connect them to SURROUND BACK/ FRONT HEIGHT terminal(s).

* Speakers are provided with model HW-D770S only. Model HW-D700 does not come with speakers.
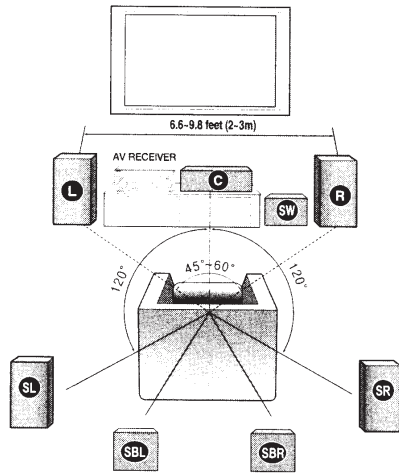
L, R, C, SW, SL, SR, SBL, SBR (Dolby Pro Logic IIx)   L, R, C, SW, SL, SR, FHL, FHR(Dolby Pro Logic IIz)
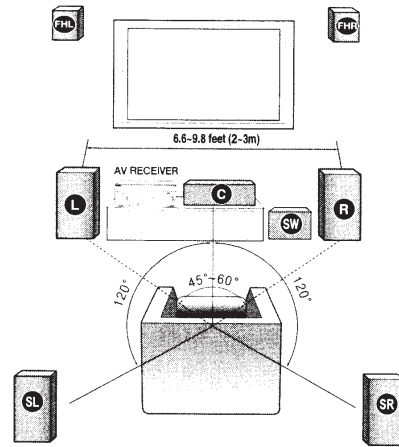
Position of AV Receiver

Place the AV Receiver on a dedicated stand or rack.

Subwoofer 🔊

The position of the subwoofer is not so critical. Place it anywhere you like.

Subwoofer function (HW-D770S only)

Active subwoofer with integrated 150W amplifier provides rich bass sound.

- Connect the **SW OUT** terminal of the amplifier to the **INPUT** terminal of the subwoofer speaker.
- Press the **POWER** button on the rear side of the subwoofer to turn the power on.
- Using the subwoofer's VOLUME control, you can set the desired bass level (See page 40 "Setting the Speaker Level" to set the subwoofer level in the menu).
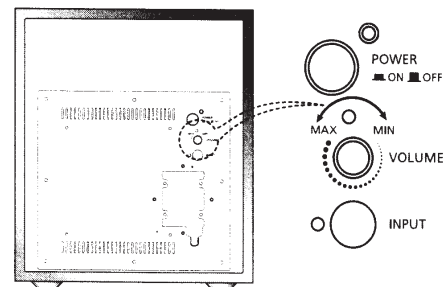
Front Speakers 🔊🔊

Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
Place the speakers so that their tweeters will be at the same height as your ears.
Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speaker.

Center Speaker C

It is best to install it at the same height as the front speakers.
You can also install it directly over or under the TV.

Surround Speakers SL SR

Place these speakers behind your listening position.
If there isn't enough room, place these speakers so they face each other.
Place them about 2 to 3 feet (60 to 90cm) above your ears, facing slightly downward.
Unlike the front and center speakers, the surround speakers are used to handle mainly sound effects and sound will not come from them all the time.

Surround Back Speakers SBL SBR (Using Dolby Pro Logic IIx)

If you are using two rear center speakers, place them behind the listening position.
Place the surround back speaker about 2.3-3.3 feet (70 cm to 1 m).

Front Height Speakers FHL FHR (Using Dolby Pro Logic IIz)

When using Dolby Pro Logic IIz, place the Surround Back Speakers on the FHL, FHR position above the front L and front R speakers at least 3.3 feet(1 m) above each one.

✎ NOTE
▪ When you attach the speakers to the wall, make sure to fasten them tightly so they do not fall off.

Speaker Configuration

For the best surround-sound experience, you should connect seven speakers and a powered subwoofer. The following table shows which channels you should use based on the number of speakers you have.

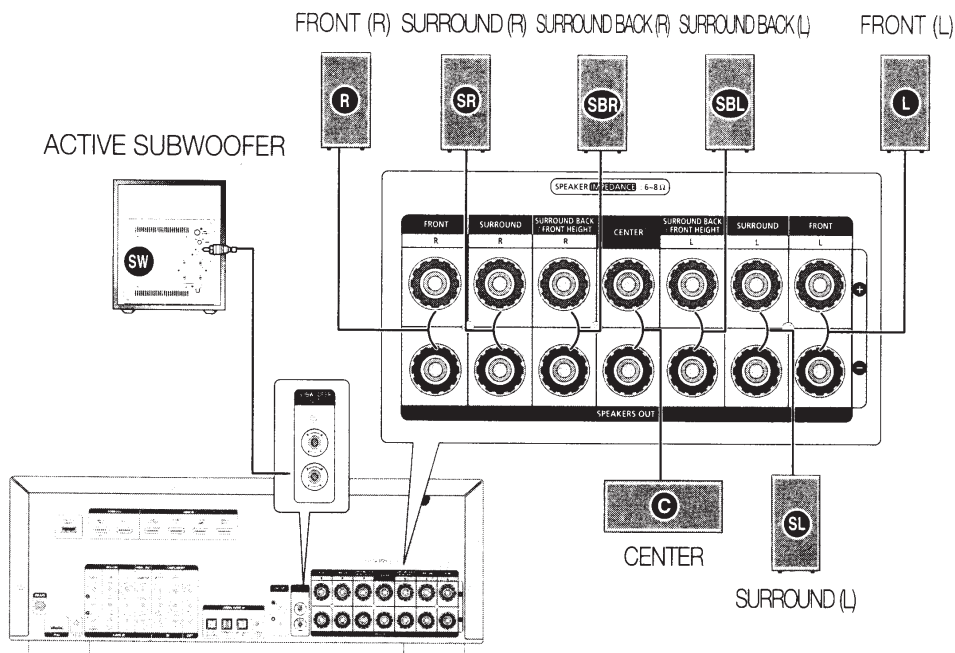| 2 speakers	3 speakers	4 speakers	5 speakers	7 speakers (DPL IIx)	7 speakers (DPL IIz)
L	L	L	L	L	L
R	R	R	R	R	R
	C		C	C	C
		SL	SL	SL	SL
		SR	SR	SR	SR
				SBL	FHL
				SBR	FHR

✎ NOTE
▪ No matter how many speakers you use, a powered subwoofer is recommended for powerful and solid bass.
▪ If you place a speaker near your TV set, screen color may be distorted because of the magnetic field generated by the speaker. If this occurs, place the speaker away from your TV set.

Connecting the Speakers

Connecting Speaker Wire

1. Loosen the knob by turning counterclockwise.
2. Insert the bare part of the wire into the hole in the side of each terminal.
3. Tighten the knob by turning clockwise to secure the wire.

1.   *2.*   *3.*

FRONT (R) SURROUND (R) SURROUND BACK (R) SURROUND BACK (L) FRONT (L)

ACTIVE SUBWOOFER

SPEAKER IMPEDANCE 6~8Ω

FRONT | SURROUND | SURROUND BACK FRONT HEIGHT | CENTER | SURROUND BACK FRONT HEIGHT | SURROUND | FRONT

R   R   R   L   L   L

SPEAKERS OUT
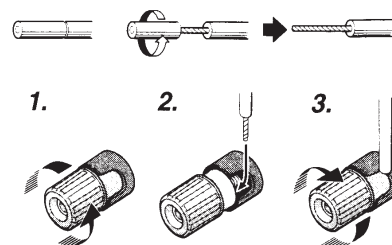
CENTER

SURROUND (L)

Model HW-D700	
AV Receiver	HW-D700

Model HW-D770S	
AV Receiver	HW-D700
FRONT SPEAKER	PS-FC770S
CENTER SPEAKER	PS-CC770S
SURROUND SPEAKER	PS-RC770S
SURROUND BACK SPEAKER	PS-BC770S
ACTIVE SUBWOOFER	PS-AW730

✎ NOTE

- Speakers are provided with model HW-D770S only. Model HW-D700 does not come with speakers.
- One Active Subwoofer is provided, if you would like to use another, purchase it from the retailer where you bought the player and connect it to the other SUBWOOFER OUT Jack.
- Keep the subwoofer speaker out of reach of children to prevent them from inserting their hands or objects into the duct (hole).
- Never touch speaker terminals while the power is on. Doing so could result in electric shock.
- Make sure the polarities (+ and -) are correct.
- If you want to use two active subwoofer speakers, connect both subwoofer speakers into the SUBWOOFER OUT terminals in the rear panel.
- When using Dolby Pro Logic IIz, connect the Front Height speakers (FHL,FHR) to the Surround Back Speaker terminals.

Connecting the Bi-AMP Speaker

Connect the tweeter (high range) port and woofer (low range) to the front port and surround back speaker port respectively as appropriate. Then, you can use the bi-amplification feature that supports enriched high range and base tones.
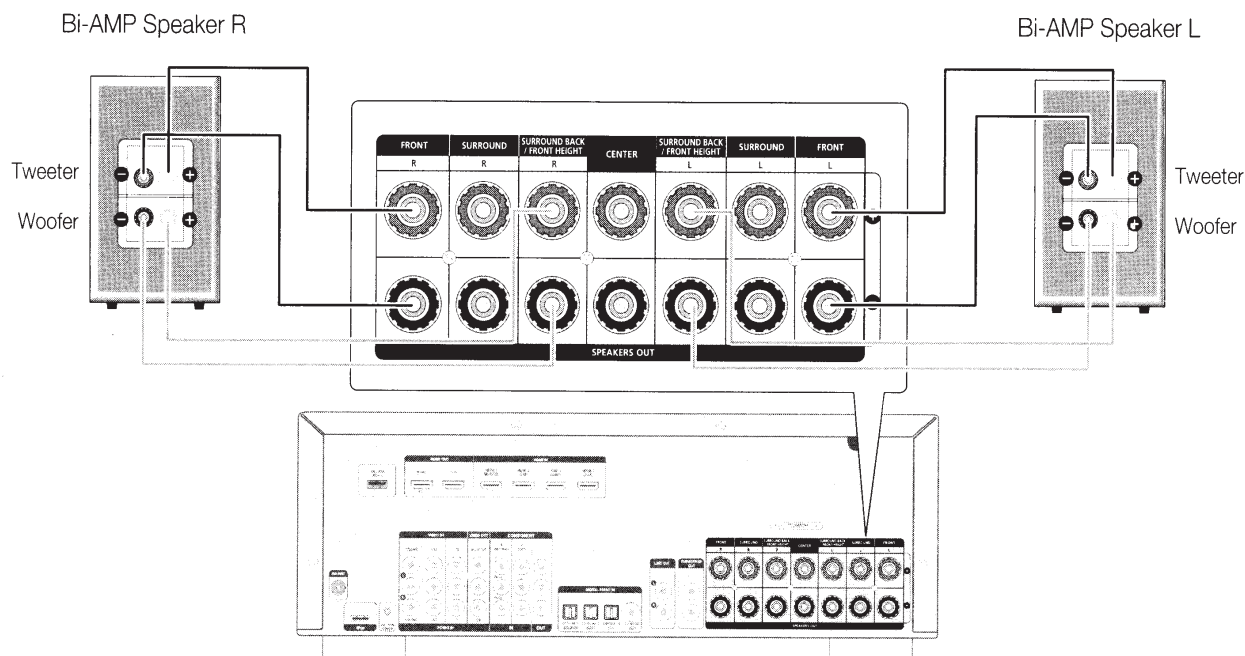
1. Connect the FRONT L connector (rear side of main unit) to the Tweeter port in the front left speaker.
2. Connect the FRONT R connector (rear side of main unit) to the Tweeter port in the front right speaker.
3. Connect the SURROUND BACK L connector (rear side of main unit) to the Woofer port in the front left speaker.
4. Connect the SURROUND BACK R connector (rear side of main unit) to the Woofer port in the front right speaker.

! CAUTION

- If Bi-amp is active, you may encounter a restricted access if you have not removed the shorting bar (like a jumper) in both tweeter and subwoofer ports in the front speaker.
- Before you can use bi-amp, ensure that you use a speaker that supports bi-amplifying.

✎ NOTE

- To enable the Bi-Amp feature, you must set 7.1 CHANNEL to Bi-AMP in SETUP menu. See page 38.
- With the Bi-amp feature, you can use up to 5.1 channels for speaker output in the main unit.

Connections

HDMI is a digital standard interface for connection to such devices as a TV, projector, DVD player, Blu-ray player, set-top box and more.
HDMI removes any loss of signal from analog conversion, enabling you to enjoy video and audio sound quality as it was originally created in the digital source.
By connecting through the HDMI(High-Definition Multimedia Interface) interface, you can play back digital video and audio.
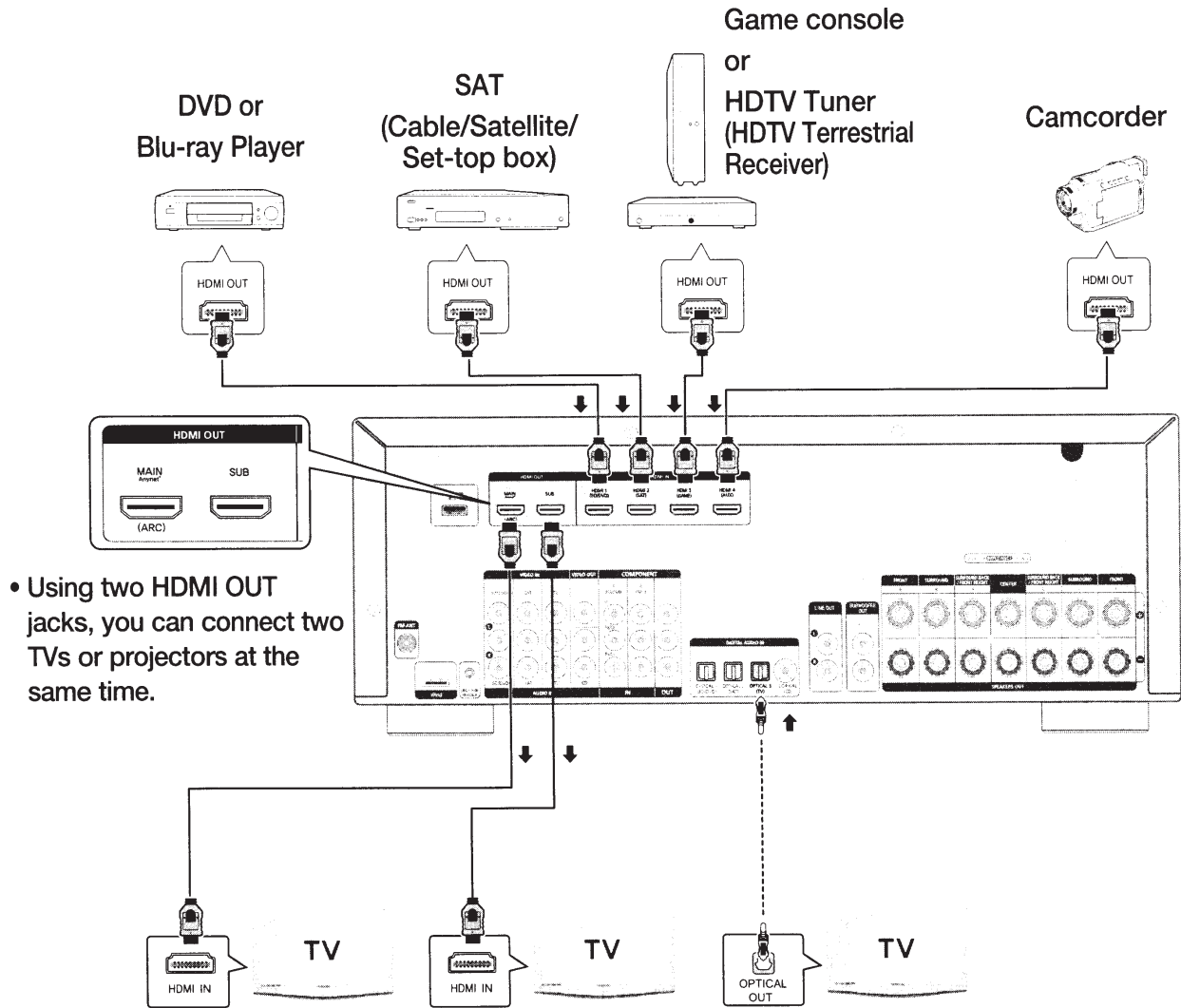
- Using two HDMI OUT jacks, you can connect two TVs or projectors at the same time.

- Connect it if you want to use Anynet+. (If connected TV support ARC, it is not necessary to connect the OPTICAL OUT.)

MAIN Jack
- Supports Anynet+ and ARC.
- Supports Full HD and 3D.

SUB Jack
- Does not support Anynet+ and ARC.
- When both Main and SUB are connected at the same time, output signal of SUB will be the same to that of Main, which matches specifications of the TV connected to the Main jack.

JACK	Anynet+	ARC	Resolution	3D
MAIN	O	O	1080p	O
SUB	X	X	1080p	O

✎ NOTE
- When a 3D TV is connected to the Main and a 2D TV is connected to SUB at the same time, both Main and Sub output 3D signal and the TV connected to SUB will display nothing.
- If your TV supports ARC function, connect to ARC support port of TV. (To enable ARC function for the TV connected to SUB jack, a TV that supports ARC function should have been connected to the MAIN jack.)

High-bandwidth Digital Content Protection System (HDCP) support
To play digital contents through the HDMI connection, both the connected external device and TV must support High-bandwidth Digital Content Protection System (HDCP). This product supports HDCP.

Compatibility with a TV Supporting HDMI	
A TV with an HDMI jack.	Video/Audio
A TV with a DVI-D jack (TV supporting HDCP)	Video
A TV with a DVI-D jack (TV not supporting HDCP)	-

✎ NOTE
- Audio from SACD discs will not be heard with this connection. To play a DVD disc whose copyright is protected by CPPM, use a player supporting CPPM.
- The quality of the audio output through the HDMI jack (sampling frequency and bit rate) may be limited by the performance of the connected device.
- Since HDMI connection supports both video and audio, you don't have to connect an additional audio cable.

Connections

Using Anynet+ (HDMI-CEC)

Anynet+ is a function that enables you to control other Samsung Devices with your Samsung TV's remote control. Anynet + can be used by connecting this AV Receiver to a SAMSUNG TV using an HDMI Cable. This is only available with SAMSUNG TVs and SAMSUNG AV Products that support Anynet+.

1. Connect the AV receiver to a Samsung TV with an HDMI cable. (See page 20)
2. Set the Anynet+ function on your TV.
   (See the TV instructions manual for more information.)
   • You can operate the volume on the AV receiver by using Volume buttons on the TV remote control.

To Turn on Anynet+

1. Press the **SETUP/MENU** button on the remote control.
   • Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **HDMI SETUP**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select **HDMI ANYNET+**, and then press the **ENTER** button.
5. Press the ▲▼ buttons to set **ANYNET+** to **ON**, and then press the **ENTER** button.

To exit setup mode

• Press the **SETUP/MENU** or **EXIT** button on the remote control.
  SETUP OFF appears on the display and Setup Mode is exited.

✎ NOTE
  ▪ If you use an HDMI cable to connect a Samsung TV to your AV Receiver, you can operate the AV receiver using the TV's remote control. This function is available only in connection with Samsung TV and DVD player supporting Anynet + (HDMI-CEC).
  ▪ Please check your TV for the **ANYNET+** logo. If your TV has an **ANYNET+** logo, then it supports the Anynet+ function.
  ▪ When you are making Anynet+ connection, do not connect more than two AV receivers (Anynet+ installed). Otherwise, it can cause a malfunction.

Connecting to your TV
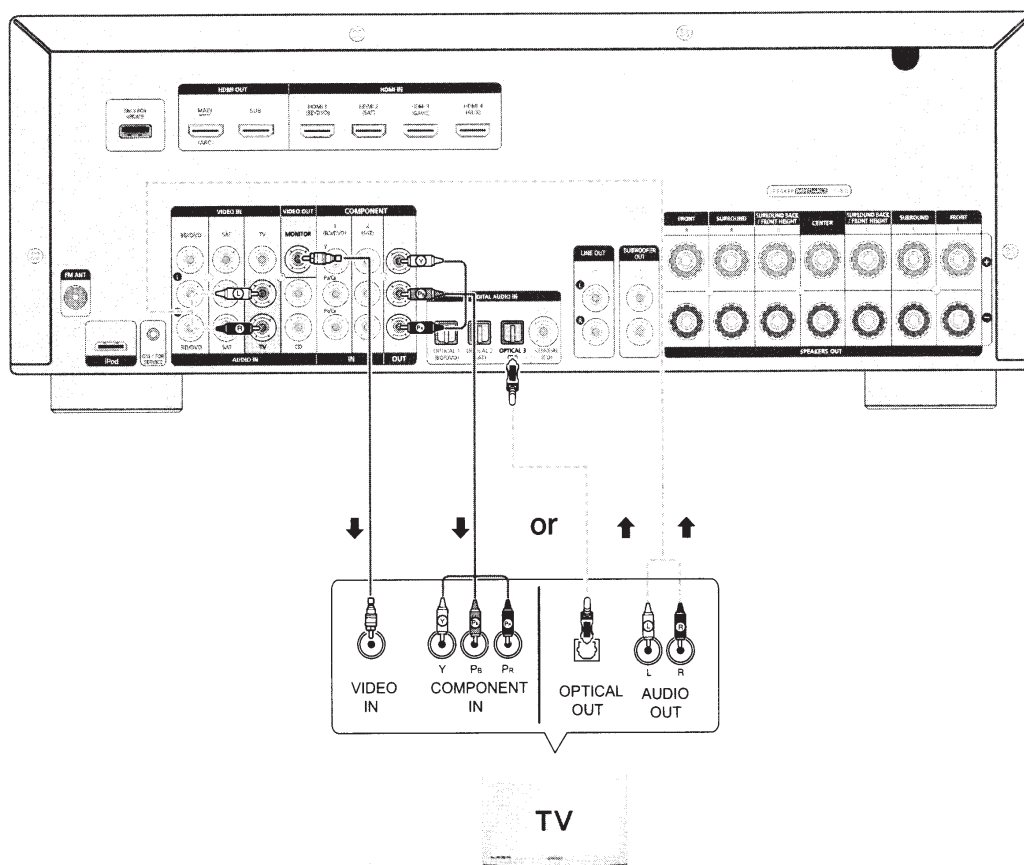
Video Connection

If your television is equipped with Component Video inputs, connect a Component video cable (not supplied) from the Component Video Output (PR, PB and Y) jacks on the back of your AV Receiver to the Component Video Input jacks on your TV.

OR

Connect the Video cable (not supplied) from the VIDEO OUT (MONITOR) jack on the back of your AV Receiver to the Video Input jack on your TV.

Audio Connection

Connect the Digital Input (OPTICAL 3) on your AV Receiver to the Digital Output of the TV.

OR

Connect AUDIO IN (TV) on your AV Receiver to the Audio Out of the TV.

English **23**

Connections

Connecting a DVD or BD(Blu-ray) Player

DVD or BD Player

Video Connection

Connect a Component video cable (not supplied) from the COMPONENT IN (BD/DVD) (P_R, P_B and Y) jacks on the back of your AV Receiver to the Component Video Output jacks on your DVD/BD player.

OR

Connect a Video cable (not supplied) from the VIDEO IN (BD/DVD) jack on the back of your AV Receiver to the Video Output jack on your DVD/BD player.

Audio Connection

Connect the Digital Input (OPTICAL 1) on your AV Receiver to the Digital Output of the DVD/BD player.

OR

Connect AUDIO IN (BD/DVD) on your AV Receiver to the Audio Out of the DVD/BD player.

Connecting a Cable, Satellite or Set-top Box

SAT(Cable/Satellite/Set-top box)

Video Connection

Connect a Component video cable (not supplied) from the COMPONENT IN (SAT) (PR, PB and Y) jacks on the back of your AV Receiver to the Component Video Output jacks on your SAT.

OR

Connect a Video cable (not supplied) from the VIDEO IN (SAT) jack on the back of your AV Receiver to the Video Output jack on your SAT.
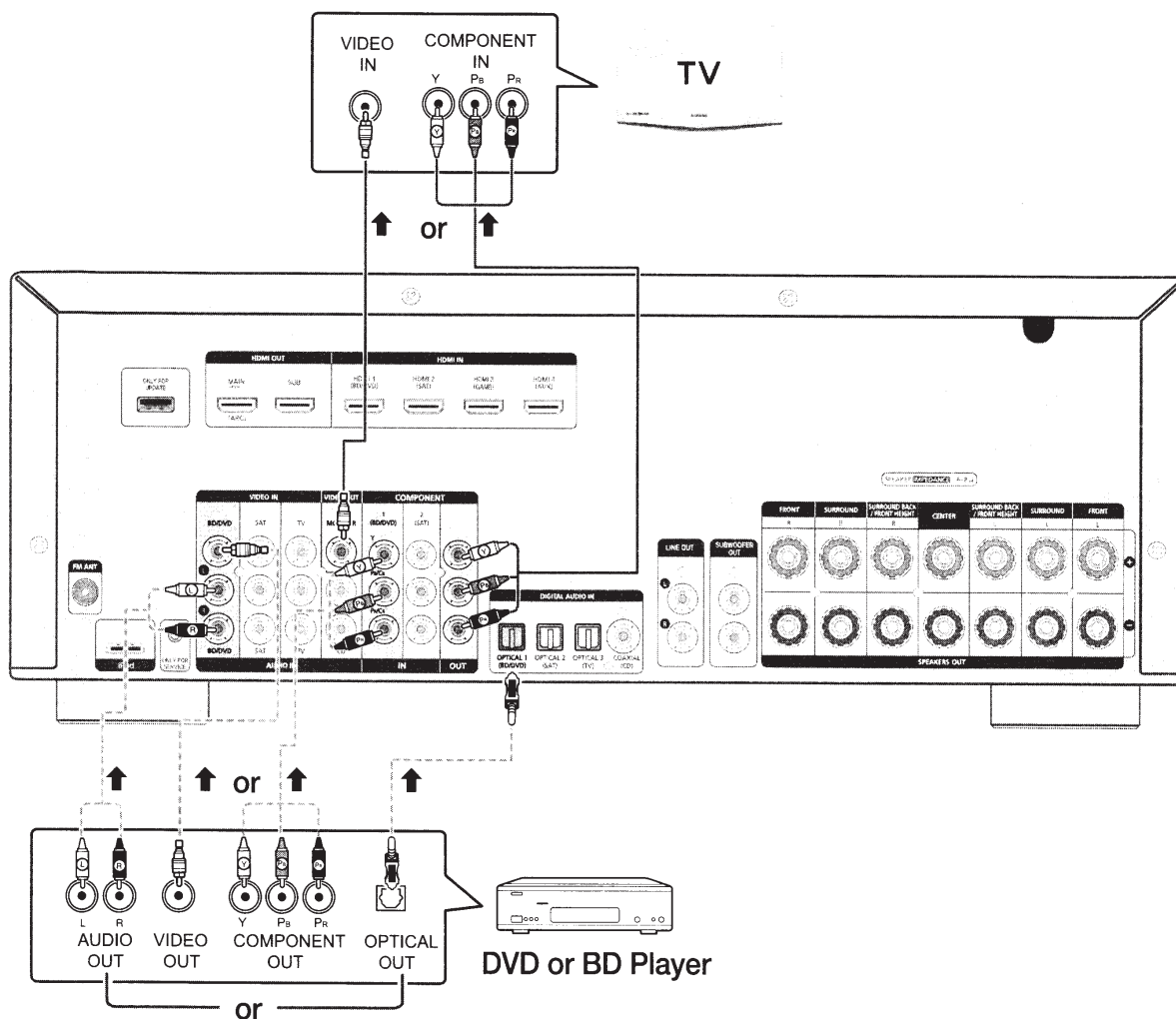
Audio Connection

Connect the Digital Input (OPTICAL 2) on your AV Receiver to the Digital Output of the SAT.

OR

Connect AUDIO IN (SAT) on your AV Receiver to the Audio Out of the SAT.

✎ **NOTE**

 ▪ Disconnect the power plug from the outlet if you will not use this unit for a long period of time.
 ▪ If the cable/set-top box has only one audio output jack, connect it to either the right or left audio input jack of the main unit. Connect the audio cable's red plug to the red jack and white cable to the white jack.
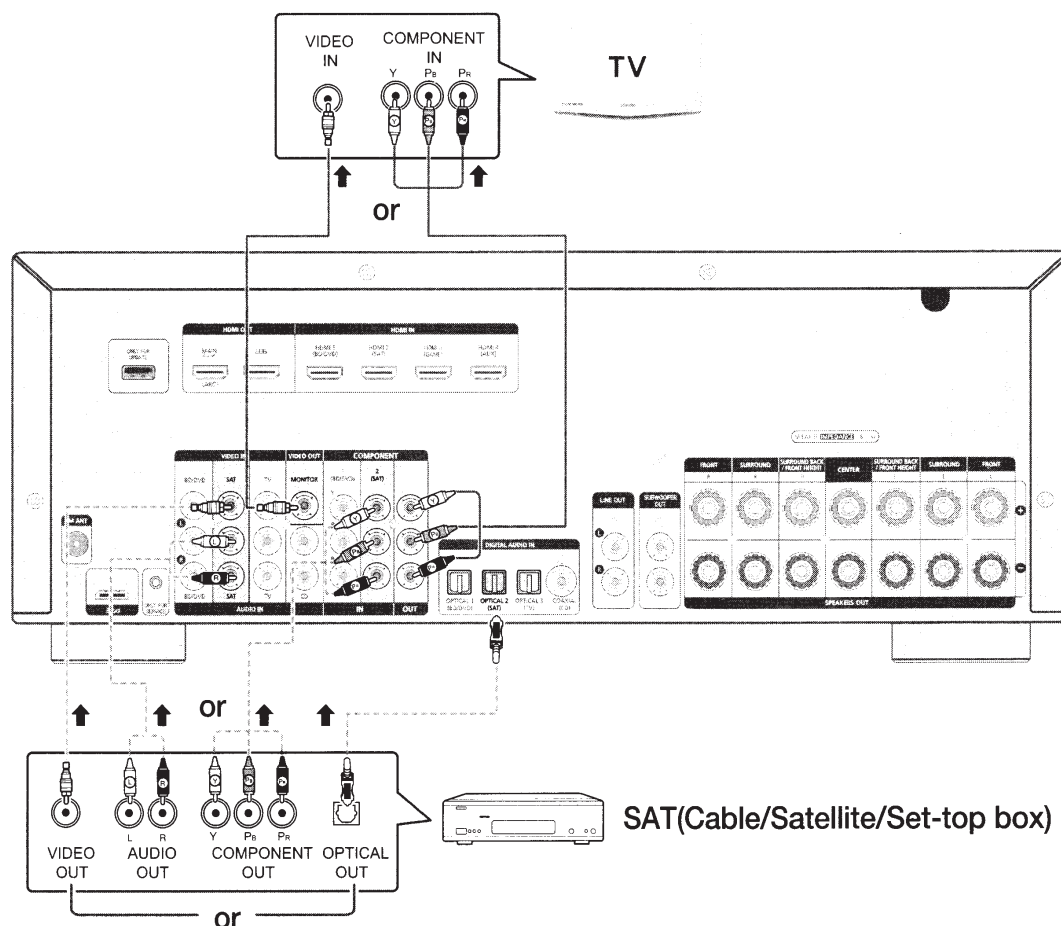
Connections
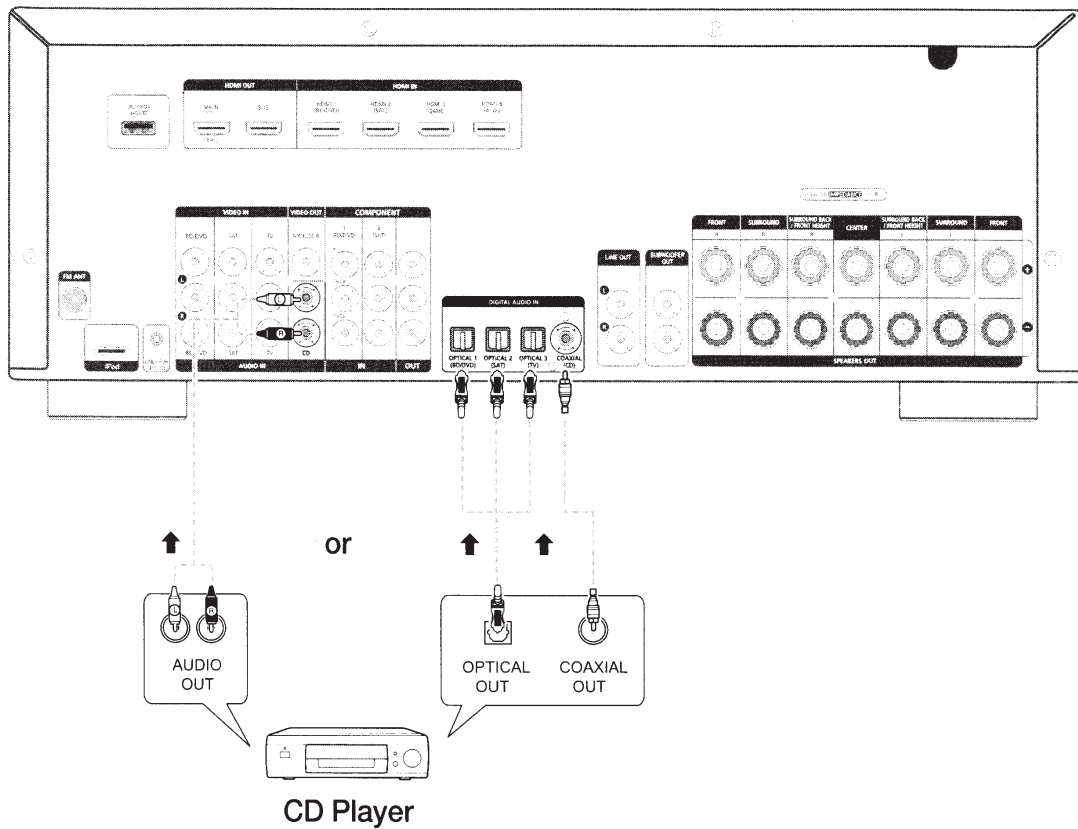
CD Player

Audio Connection

Connect the Digital Input (COAXIAL, OPTICAL1~3) on your AV Receiver to the Digital Output of the CD Player.

OR

Connect AUDIO IN (CD) on your AV Receiver to the Audio Out of the CD player.

✎ NOTE

- Connect the audio cable's red plug to the red jack and white cable to the white jack.
- If the CD player has only one audio output jack, connect it to either the right or left audio input jack of the main unit.
- If the CD player has only OPTICAL digital output jack, connect it to OPTICAL1 or 2 JACK of the main unit. Please see "Audio Setup" at Page 36.

Connecting Using the External Amplifier (Ex. Second Room)

This setup allows 7.1-channel playback in your main listening room and 2-channel stereo playback in Second Room, with a same source in each room.

- Use an RCA audio cable to connect the AV receiver's LINE OUT L/R jacks to an analog audio input on your Second Room amplifier.
- Connect your Second Room speakers to the speaker terminals on your Second Room amplifier.

Install speaker in sub space

Install speaker in main space

Second Room
Connecting using the external amplifier
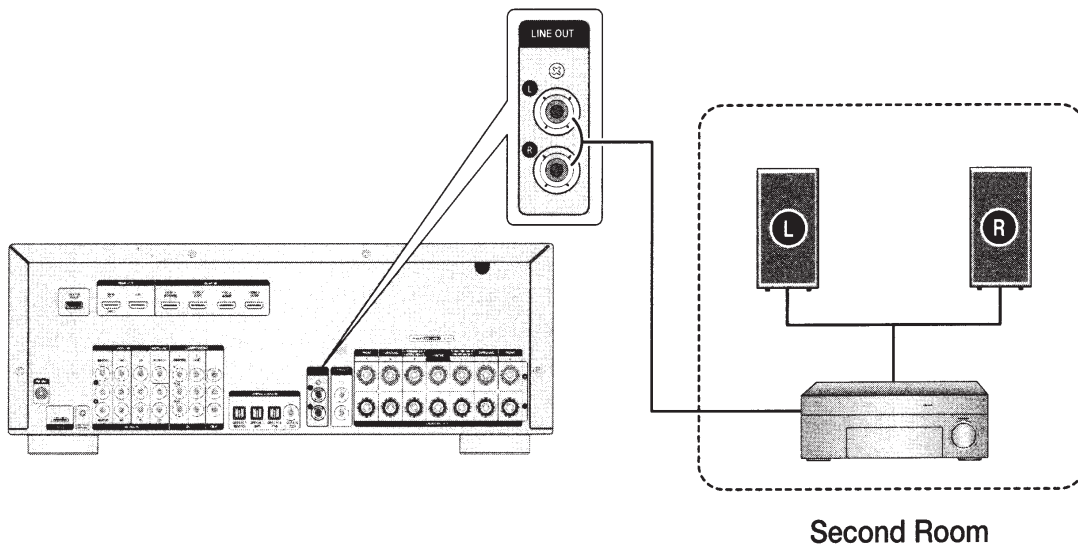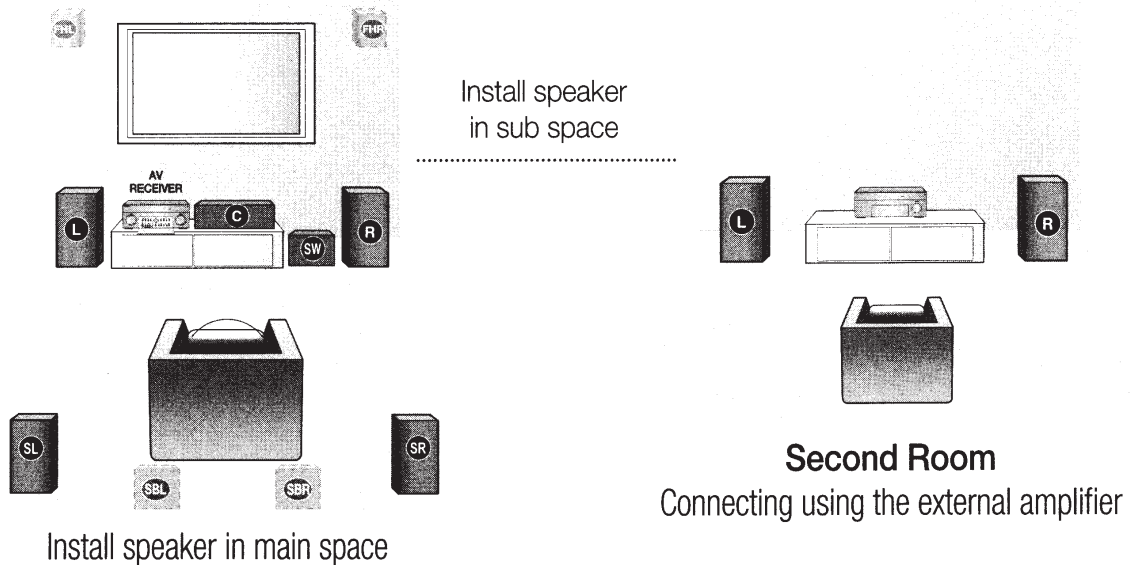
Second Room

NOTE

- Usually, the secondary amplifier is used in a second room.
- Line Out only outputs analog signal.
- Line Out does not provide the Volume Control.
- The external amplifier with volume control (like AV Receiver or Pre-Main Amplifier) should be used.
- The Volume can be controlled in the external amplifier.

English **27**

Connections

You can listen to audio from an iPod through the main unit. For iPod operation with your receiver, see this page and pages 54 ~ 55.

Made for
iPod iPhone
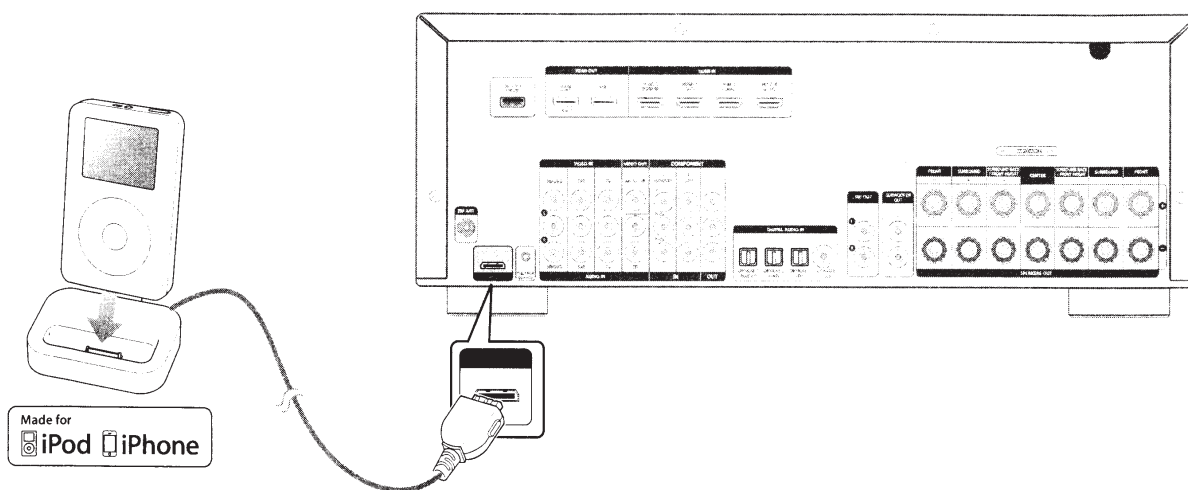
1. Connect the iPod dock connector to the iPod jack on your reciever.
2. Place the iPod in the Dock.
   - If you want to play a movie stored in your iPod player, you should set the player's **TV Out** option to **On** before inserting it into the dock. See pages 54 ~55.
3. Press the **iPod** button on the remote control.
   - You can also use the **INPUT SELECT** on the main unit.
     The mode switches as follows :
     FM → TV → BD/DVD → SAT → GAME → AUX → CD → IPOD AUDIO → IPOD VIDEO

✎ NOTE

- You must have the VIDEO (Monitor or TV) output connected to your TV to view iPod video. See page 23.
- Adjust the volume to a moderate level before you connect your iPod and AV Receiver.
- When the unit is powered on and you connect an iPod, the unit will charge your iPod's battery.
- Make sure to connect the dock connector so that the label "**SAMSUNG**" faces upward.

Disconnecting an iPod

Follow the steps below to prevent damage to an iPod and data when disconnecting from your AV receiver.

1. Use the **INPUT SELECT** on the main unit to switch to a mode other than **IPOD AUDIO** or **IPOD VIDEO**.

OR

1. Turn off the AV Receiver.
2. Disconnect the iPod player from the iPod dock, or remove the iPod dock connector from the AV receiver.

iPod/iPhone Models You Can Use with This Product

- iPod touch (3rd generation)
- iPod touch (2nd generation)
- iPod touch (1st generation)

- iPod classic
- iPod with video

- iPod with dock connector
- iPod with Click Wheel

- iPod nano (5th generation)
- iPod nano (4th generation)
- iPod nano (3rd generation)
- iPod nano (2nd generation)
- iPod nano (1st generation)

- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

✎ NOTE

- "Made for iPod" means that an electronic accessory has been designed to connect specifically to iPods and has been certified by the developer to meet Apple performance standards.
- "Made for iPhone" means that an electronic accessory has been designed to connect specifically to iPhones and has been certified by the developer to meet Apple performance standards.
- Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

iPhone is a trademark of Apple Inc.

Connections

1. Connect the FM antenna supplied to the FM ANTENNA terminal as a temporary measure.
2. Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.
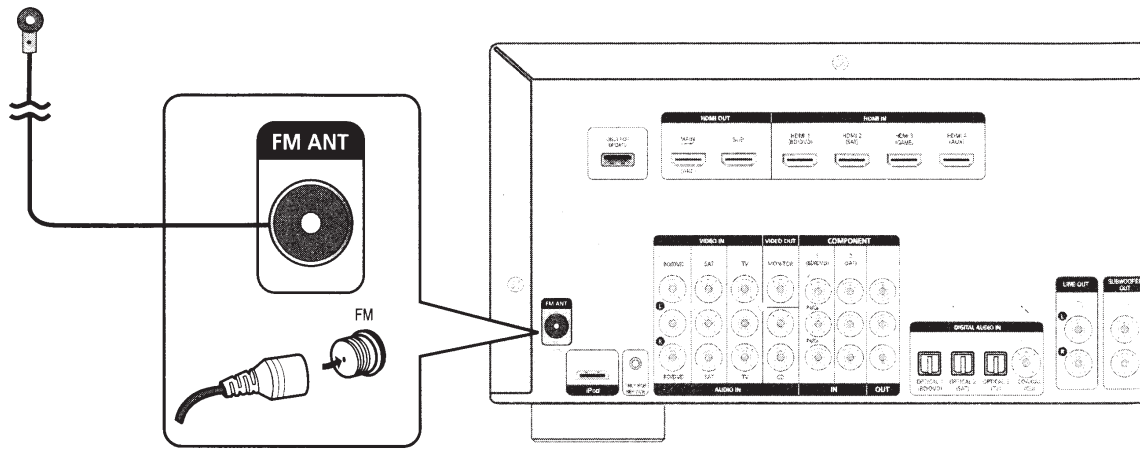
FM antenna (supplied)

✎ **NOTE**

▪ Do not place the antenna cable close to the power cord. Keep it as far away as possible.
▪ If you experience poor FM reception, use an external antenna.

Connecting AUX Components

You can connect external devices you use for a short time (camcorder, game console, mobile equipment, etc.) to the front of this unit for convenience.

Camcorder

Setup
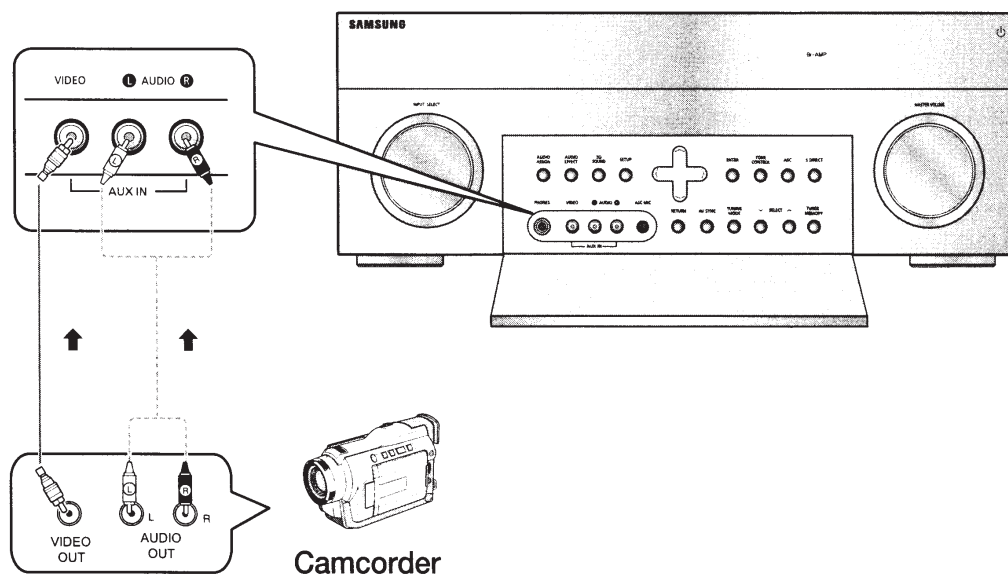
For your convenience, you can set this AV receiver's features for the best use.

Before Using the AV Receiver

Turning On/Off

Connect the power plug to the outlet.
This unit will set to Standby mode.

Press the **POWER** button on the main unit for 2 seconds.

- This unit will be turned on.
- You can also turn the unit on/off by pressing the **POWER** button on the remote control.

Remote Control Functions

You can operate your AMP (this AV receiver)/ TV and BD(Samsung only)/DVD player with this remote control. See pages 58 ~ 59 for more details.

To Select a Function

Method 1

Press the **INPUT SELECT** button on the remote control.

- Each time you press this button, **FM** → **TV** → **BD/DVD** → **SAT** → **GAME** → **AUX** → **CD** → **IPOD AUDIO** → **IPOD VIDEO** will be selected in turn.

Method 2

Press the **BD/DVD**, **SAT**, **GAME/TV**, **CD**, **iPod** or **TUNER** button.

- You can directly select the desired function.

Home Menu

Use the HDMI cable to connect between main unit and monitor. Press **SETUP/MENU** to display the "INPUT" message on the display screen. You will see the OSD menu in a few seconds.

✎ NOTE

- The OSD menu will be displayed only if you use the HDMI cable for the connection.
- For using the OSD menus, refer to using the menus on the display screen.
- The OSD (On Screen Display) may change in this product after you upgrade the software version.

English **31**

Setup
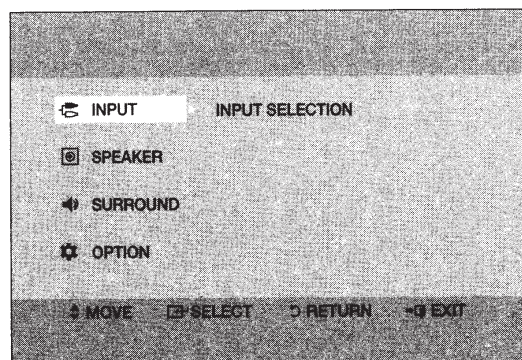
Selecting Digital/HDMI/Analog

You can listen to sound of analog, HDMI, optical input using this unit.

1. Press the **INPUT SELECT** button on the remote control to select a desired function (BD/DVD, SAT, TV, CD, AUX). See page 31.
2. Press the **AUDIO ASSIGN** button on the remote control to select the audio input source of the external device you have connected.
   - Each time you press this button, the input mode changes as follows:
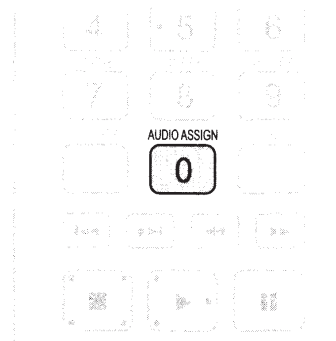
- **For BD/DVD function**

| DVD   HDMI 1 | DVD   ANALOG | DVD   OPTIC 1 |

- **For SAT function**

| SAT   HDMI2 | SAT   ANALOG | SAT   OPTIC2 |

- **For TV function**

| TV   OPTIC3 | TV   ARC | TV   ANALOG |

- **For CD function**

| CD   COAXIAL | CD   ANALOG |

- **For AUX function**

| AUX   HDMI4 | AUX   ANALOG |
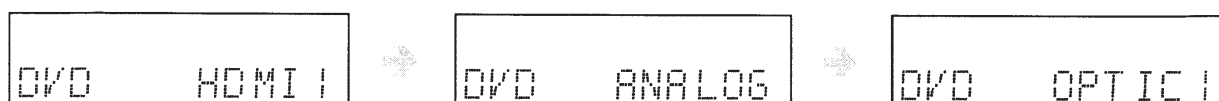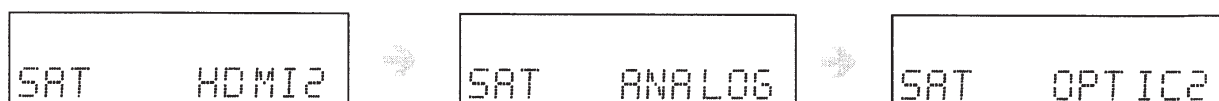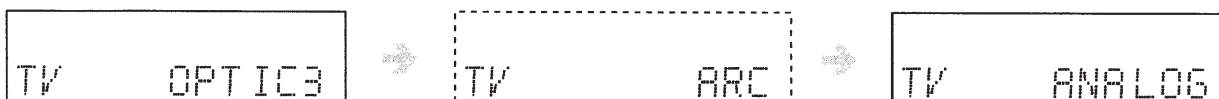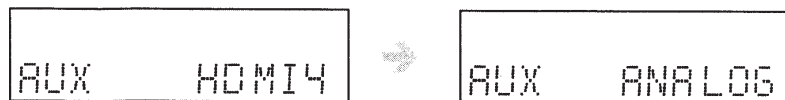
✎ **NOTE**

- You can also change the input mode by pressing the **AUDIO ASSIGN** button on the front of your AV Receiver.
- You can enjoy Dolby Digital or DTS if you connect the digital audio output jack of an external audio component to the optical or coaxial digital audio input jack on the main unit.
- For the TV function, the TV ARC menu will be displayed only if an ARC-compliant TV is connected.

Setup Menu Tree

Here's a quick look at how the setup menus are organized on your AV Receiver.

INPUT

INPUT SELECTION

BD/DVD
| OPTICAL1, 2 | COAXIAL |

SAT
| OPTICAL1, 2 | COAXIAL |

CD
| OPTICAL1, 2 | COAXIAL |

SPEAKER
- SPEAKER SIZE
- 7.1 CHANNEL
- SPEAKER DISTANCE
- SPEAKER LEVEL
- TEST TONE

SURROUND
- DPLIIx
- DTS NEO:6
- EX/ES

OPTION
- AUDIO SYNC
- TONE CONTROL
- MP3 ENHANCER
- SMART VOLUME
- AUTO CALIBRATION
- DRC
- DUAL MONO
- HDMI SETUP
- CONVERT VIDEO

Setup

SPEAKER

SPEAKER SIZE			
FRONT	LARGE	SMALL	
CENTER	LARGE	SMALL	NONE
SURROUND	LARGE	SMALL	NONE
SURROUND BACK	LARGE	SMALL	NONE
FRONT HEIGHT	LARGE	SMALL	
SUBWOOFER	YES	NO	
CROSSOVER	60Hz, 80Hz, 100Hz, 120Hz, 150Hz, 180Hz, 200Hz		

7.1 CHANNEL
SURR.BACK
PLIIz
BI-AMP

SPEAKER DISTANCE	
FRONT LEFT	
FRONT RIGHT	
CENTER	
SURROND LEFT	
SURROUND RIGHT	1 ~ 30FT (1 foot steps) , default : 10FT
SURROUND BACK LEFT / FRONT HEIGHT LEFT	
SURROUND BACK RIGHT / FRONT HEIGHT RIGHT	
SUBWOOFER	

SPEAKER LEVEL	
FRONT LEFT	
FRONT RIGHT	
CENTER	
SURROND LEFT	
SURROUND RIGHT	-10 ~ +10dB (1dB step) , default : 00dB
SURROUND BACK LEFT / FRONT HEIGHT LEFT	
SURROUND BACK RIGHT / FRONT HEIGHT RIGHT	
SUBWOOFER	

TEST TONE	
AUTO	move to "Test Tone check Page"
MANUAL	

✎ NOTE

* If Dolby Pro Logic IIz is set to On, the Surround Back speaker (SBL/SBR) is changed to the Front Height Speaker (FHL/FHR).

SURROUND

- **DPLIIx**
  - PANORAMA
    - OFF | ON
  - DIMENSION
    - -7~+7
  - CENTER WIDTH
    - 0~7

- **DTS NEO:6**
  - CENTER IMAGE
    - 0~5

- **EX/ES**
  - AUTO | OFF | ON

OPTION

- **AUDIO SYNC**
  - 0ms~240ms (10ms step)

- **TONE CONTROL**
  - TONE
    - OFF | ON
  - BASS
    - -6dB ~ +6dB (1dB Step)
  - TREBLE
    - -6dB ~ +6dB (1dB Step)

- **MP3 ENHANCER**
  - OFF | ON

- **SMART VOLUME**
  - OFF | ON

- **AUTO CALIBRATION**
  - MODE
    - OFF | ON
  - MEASUREMENT
    - move to "Auto Calibration Measurement Page"

- **DRC**
  - AUTO | MINIMUM | STANDARD | MAXIMUM

- **DUAL MONO**
  - CH1 | CH2 | BOTH

- **HDMI SETUP**
  - AUTO SYNC
    - OFF | ON
  - HDMI AUDIO
    - AVR | TV
  - HDMI ANYNET+
    - OFF | ON
  - ARC
    - OFF | AUTO

- **CONVERT VIDEO**
  - AUTO | BYPASS

English **35**

Setup

Selecting a Source Device And Connection Jack (Digital Audio In)

Select the external devices you have connected to the receiver.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the **ENTER** button to select **INPUT**.
3. Press the **ENTER** button to select **INPUT SELECTION**.
4. Press the ▲▼ buttons to select a desired jack.
   - Devices switch as follows; BD/DVD, SAT, CD

✎ **NOTE**
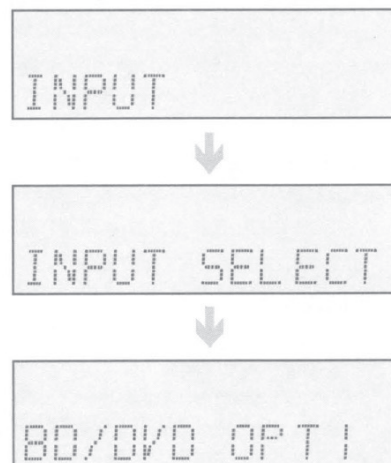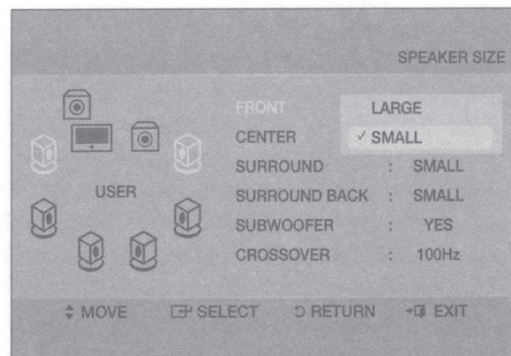   - You can also use the **SETUP**, ∧,∨, **ENTER, RETURN** buttons on the front of your AV Receiver.

```
INPUT
   ↓
INPUT SELECT
   ↓
BD/DVD OPTI
```

Setting the Speaker Size

Signal outputs and frequency response from the speaker will be adjusted according to your speaker configuration and whether certain speakers are used or not.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **SPEAKER**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **SPK SIZE**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select the speaker you want, and then press the **ENTER** button.
   - Each time you press the ▲▼ buttons, FRONT→ CENTER → SURR → SBACK(DPLIIx) / FRONTH(DPLIIz) → → SUBW → CROVR will be selected in turn.
5. Press the ▲▼ buttons to set the mode (LARGE, SMALL etc.) for the selected speaker.
6. Repeat steps 2-5 to set the mode for each speaker.

```
SPEAKER
   ↓
SPK      SIZE
   ↓
FRONT   SMALL
```

SPEAKER SIZE	
FRONT	LARGE
CENTER	✓ SMALL
SURROUND	: SMALL
SURROUND BACK	: SMALL
SUBWOOFER	: YES
CROSSOVER	: 100Hz

USER

‡ MOVE   ☞ SELECT   ↺ RETURN   ←◘ EXIT

- To exit setup mode -

• Press the **SETUP/MENU** or **EXIT** button on the remote control.
  SETUP OFF appears on the display and Setup Mode is exited.

Setting the Speaker

SPEAKER	Possible Settings	Default Setting
FRONT (Front)	LARGE, SMALL	SMALL
CENTER (Center)	LARGE, SMALL, NONE	SMALL
SURR (Surround)	LARGE, SMALL, NONE	SMALL
SBACK (Surround Back)	LARGE, SMALL, NONE	SMALL
FRONTH (Front Height)	LARGE, SMALL	SMALL
SUBW (Subwoofer)	YES, NO	YES
CROVR (Crossover Frequency)	60, 80, 100,120, 150, 180, 200(Hz)	100Hz

• LARGE : Select when using large speakers. You can listen to full range sound.
• SMALL : Select this when using small speakers.
• NONE : Select when no speaker is used.
• YES (subwoofer) : Select when using the subwoofer speaker.
• NO (subwoofer) : Select when not using the subwoofer speaker.
• CROVR : Select the crossover frequency for the best bass response in your speakers.

✎ **NOTE**
  ▪ You can also use the **SETUP, ∧,∨, ENTER, RETURN** buttons on the front of your AV Receiver.
  ▪ When the Front speaker is only set to LARGE, you can select LARGE of other speakers.
  ▪ When the Surround speaker is set to LARGE, you can select LARGE of SBACK (Surround Back) speaker.
  ▪ When the 7.1 CHANNEL is set to PLIIz, you can not select NONE of surround speaker and front height speaker.
  ▪ You can also change the crossover frequency by using the **CROSS OVER, <, >** buttons on the remote control.

Setup

Connection Setting For Surround Back

Settings for the surround back speaker differ depending on the connection method and installation site of the speaker to be connected. You must configure the 7.1 CHANNEL settings according to the connected speaker before you listen to music properly.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲ ▼ buttons to select **SPEAKER**, and then press the **ENTER** button.
3. Press the ▲ ▼ buttons to select **7.1 CHANNEL**, and then press the **ENTER** button.
4. Press the ▲ ▼ to select a proper setting for the surround back speaker.
   - **SURR.BACK** : Select this if you want to install the surround back speaker in the default settings. With this setting, you can enable the Dolby Pro Logic IIx mode.
   - **PLIIz** : Select this if you want to install the surround back speaker in the top front corner. With this setting, you can enable the Dolby Pro Logic IIz mode.
   - **BI-AMP** : Select this if you want to connect the Bi-Amp compliant speaker to the surround back port. With this setting, you can enable the Bi-Amp feature.

SPEAKER

↓

7. 1 CHANNEL

↓

SURR. BACK

|			
🔁 INPUT	SPEAKER SIZE		
▣ SPEAKER	7.1 CHANNE	✓ SURR.BACK	
	SPEAKER DI	PLIIz	
🔊 SURROUND	SPEAKER LE	BI-AMP	
	TEST TONE		
✿ OPTION			
↕ MOVE	⏎ SELECT	↺ RETURN	⬅ EXIT
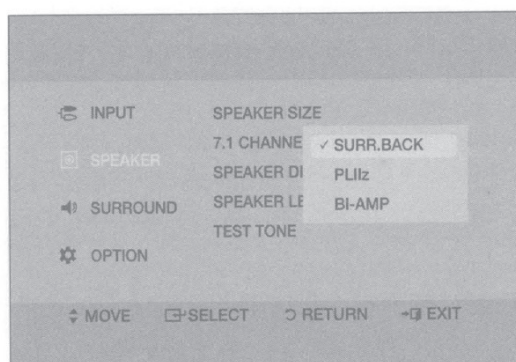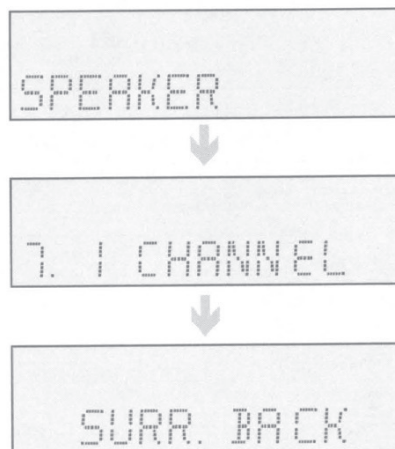
✎ **NOTE**

- Depending on the 7.1 CHANNEL settings, the surround back speaker or front height speaker menus may not be activated or may differ in the speaker menu: SPEAKER SIZE, SPEAKER LEVEL, SPEAKER DISTANCE.
- Depending on your setting, you may not use different features simultaneously. If you set SURR-BACK, for instance, you cannot use the following features: PLIIz and BI-AMP.

Setting the Speaker Listening Distance

If the speakers cannot be placed at equal distances from the listening position, you can adjust the delay time of the audio signals from the center and surround speakers.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.

2. Press the ▲▼ buttons to select **SPEAKER**, and then press the **ENTER** button.

3. Press the ▲▼ buttons to select **SPK DISTANCE**, and then press the **ENTER** button.

4. Press the ▲▼ buttons to select the speaker you want.
   - Each time you press the ▲▼ buttons, F.L → F.R→ CEN → S.L → S.R → SBL → SBR → S.W will be selected in turn.

5. Press the ◄ ► buttons to set the Speaker Distance.
   - For the FRONT LEFT, FRONT RIGHT, CENTER, SURR. LEFT, SURR. RIGHT, SURRBACK.LEFT, SURRBACK.RIGHT and SUBWOOFER Speakers, you can set the distance from the speaker to listening position between 1ft ~ 30ft (0.3~9.0m) in intervals of 1ft (0.3m).
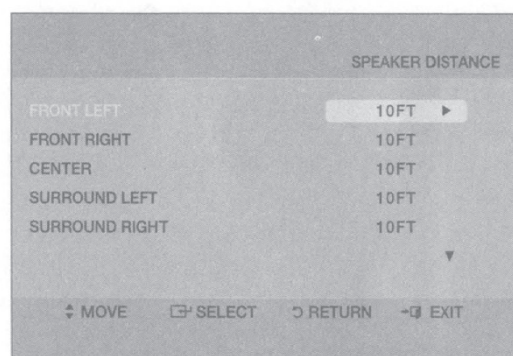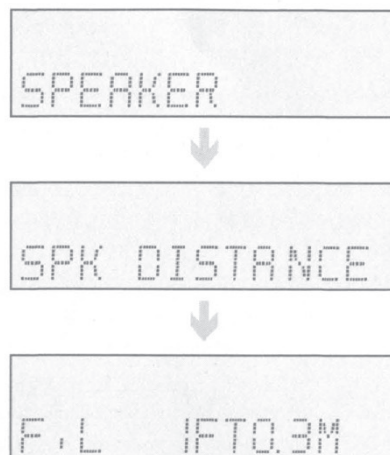
- Setting Speaker Distance -

Set the distance from the speaker to listening position in intervals of 1ft(0.3m).

- F.L (front left) : 1ft ~ 30ft
- F.R (front right) : 1ft ~ 30ft
- S.L (surround left) : 1ft ~ 30ft
- S.R (surround right) : 1ft ~ 30ft
- CEN (center) : 1ft ~ 30ft

- SW (subwoofer) : 1ft ~ 30ft
- SBL (surround back left) : 1ft ~ 30ft
- SBR (surround back right) : 1ft ~ 30ft
- FHL (front height left) : 1ft ~ 30ft
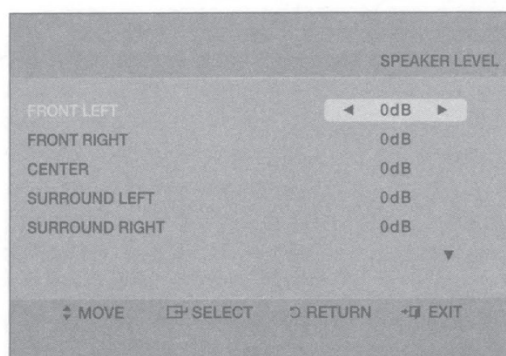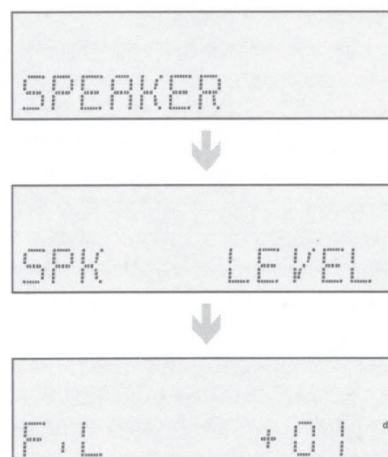- FHR (front height right) : 1ft ~ 30ft

✎ **NOTE**
- If the listening position is beyond the range of the speaker distance setup, set the speaker distance to the maximum.
- If Dolby Pro Logic IIz is set to On, the Surround Back speaker (SBL/SBR) is changed to the Front Height Speaker (FHL/FHR).

Setup

Setting the Speaker Level

You can set the balance and level of speakers.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.

2. Press the ▲▼ buttons to select **SPEAKER**, and then press the **ENTER** button.

3. Press the ▲▼ buttons to select **SPK LEVEL**, and then press the **ENTER** button.

4. Press the ▲▼ buttons to select the speaker you want.
   - Each time you press this button, F.L → F.R→ CEN → S.L → S.R → SBL → SBR → S.W will be selected in turn.

5. Press the ◄ ► buttons to set the Speaker Level mode.
   - You can adjust it from -10 to +10dB in 1 step increments.
   - The sound gets quieter at -10dB and louder at +10dB.

	SPEAKER
	↓
	SPK LEVEL
	↓
	F.L +01 dB

	SPEAKER LEVEL
FRONT LEFT	◄ 0dB ►
FRONT RIGHT	0dB
CENTER	0dB
SURROUND LEFT	0dB
SURROUND RIGHT	0dB
	▼
↕ MOVE ⊡ SELECT ↺ RETURN ⊷ EXIT	

- Setting Speaker Level -

- F.L (front left) : -10 ~ +10dB

- F.R (front right) : -10 ~ +10dB

- S.L (surround left) : -10 ~ +10dB

- S.R (surround right) : -10 ~ +10dB

- CEN (center) : -10 ~ +10dB

- SW (subwoofer) : -10 ~ +10dB

- SBL (surround back left) : -10 ~ +10dB

- SBR (surround back right) : -10 ~ +10dB

- FHL (front height left) : -10 ~ +10dB

- FHR (front height right) : -10 ~ +10dB

✎ **NOTE**

- If Dolby Pro Logic IIz is set to On, the Surround Back speaker (SBL/SBR) is changed to the Front Height Speaker (FHL/FHR).
- You can also change the subwoofer level by using the **SUBWOOFER, <, >** buttons on the remote control.

Setting the Test Tone

Use the test tone to check the speaker connection status or level.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.

2. Press the ▲▼ buttons to select **SPEAKER**, and then press the **ENTER** button.

3. Press the ▲▼ buttons to select **TEST TONE**, and then press the **ENTER** button.

4. Press the ▲▼ buttons to select the option you want, and then press the **ENTER** button.
   - **AUTO** : Test signal will be automatically output as follows;
     F.L → CEN → S.W → F.R → S.R → SBR → SBL → S.L.
     - During test tone output, press the ▲▼ buttons to adjust the speaker output level from -10 to +10 dB by 1 step.

   - **MANUAL** : Enables you to adjust the output level of the speaker manually.

     1) Press the **ENTER** button to select the speaker you want.
        Each time you press the **ENTER** button, F.L → CEN → S.W → F.R → S.R → SBR → SBL→ S.L will be selected in turn.

     2) Press the ▲▼ buttons to set the Test Tone mode you want.
        You can adjust the speaker output level from -10 to +10dB by 1 step.
        The sound gets quieter at -10dB and louder at +10dB.
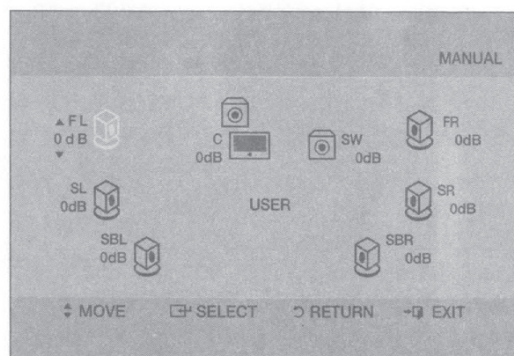
- Test Tone Output -

- F.L (front left) : -10 ~ +10dB
- F.R (front right) : -10 ~ +10dB
- S L (surround left) : -10 ~ +10dB
- S.R (surround right) : -10 ~ +10dB

- CEN (center) : -10 ~ +10dB
- S.W (subwoofer) : -10 ~ +10dB
- SBL (surround back left) : -10 ~ +10dB
- SBR (surround back right) : -10 ~ +10dB

- To stop test tone -

- Press the **SETUP/MENU** button once.
  SETUP OFF appears on the display and test tone stops.

✎ NOTE

- In the Dolby Pro Logic IIz mode, test signal will be automatically output as follows : F.L → FHL → CEN → S.W → FHR → F.R → S.R → S.L.

Setup

Setting Dolby Pro Logic Mode

This mode provides up to 7.1 channel sound from 2 channel sources, or provides 7.1 channel sound from 5.1 channel sources for music or movie mode.

Press the **PROLOGIC** button on the remote control.

- **MOVIE** : Adds realism to the movie soundtrack.
- **MUSIC** : Provides up to 7.1 channel surround sound for digital, analog or existing stereo sources.
- **GAME** : Enhances the excitement of the game's sound.
- **MATRIX** : You will hear up to 7.1 channel surround sound.
- **PL (Pro Logic)** : You will experience a surround effect with 5.1 channel surround sound.
- **OFF** : Output the original signal as it is without applying the sound field effect or any other sound effect.

Surround Setup

Setting Dolby Pro Logic IIx

This function works only in Dolby Pro Logic IIx MUSIC mode.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **SURROUND**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **DPLIIx**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select the option you want, and then press the **ENTER** button.
   - **PANORAMA :** Press the ▲▼ buttons to select ON or OFF.
     (This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.)
   - **DIMENSION** : Press the ◄ ► buttons to set from -7 to 7.
     (Incrementally adjusts the sound field (DSP)from the front or surround.)
   - **C- WIDTH :** Press the ◄ ► buttons to set from 0 to 7.
     (This sets the width of the center sound image. The higher the setting, the less sound comes from the center speaker.)

```
SURROUND
   ↓
DPLIIX
   ↓
PANORAMA  OFF
```

✎ **NOTE**
- PANORAMA, DIMENSION and CENTER WIDTH settings are enabled only if the Dolby Pro Logic Mode is set to MUSIC.
- You cannot use Dolby Pro Logic IIx mode for multi channel signals such as Dolby Digital, Dolly Digital +, Dolby true HD, DTS, DTS-HD Master Audio.
- Pro Logic works only for PCM audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.
- When Dolby Pro Logic IIz is set ON, Dolby Pro Logic IIx can not be used.

Setting NEO:6 Mode

You can play back 2 channel sound over 5.1 or 7.1 channels when enjoying music or a movie.
1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **SURROUND**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **DTS NEO:6**, and then press the **ENTER** button.
4. Press the **ENTER** buttons to set the C-IMAGE mode you want. Press the ◄ ► buttons to set the **C-IMAGE** from 0 to 5. This parameter adjusts the center image through the front and center speakers. "5" is the wider.

Using NEO:6 Mode

Press the **NEO:6** button on the remote control.
- **MUSIC** : When listening to music, you can experience sound effects as if you are listening to the actual performance.
- **CINEMA** : Adds realism to the movie soundtrack.
- **OFF** : Output the original signal as it is without applying the sound field effect or any other sound effect.

✎ **NOTE**
- NEO:6 works only for 2-ch audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.

Setting EX/ES Mode

When surround back speakers are connected, you can listen to 7.1 multi-channel sound using the built-in Dolby Digital Surround EX or DTS ES decoder. This function works when a Dolby Digital or DTS source (such as a DVD player) is input, and does not work with L.PCM and Dolby Digital 2 channel sources.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **SURROUND**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **EX/ES**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to set the EX/ES mode you want.
   - **AUTO :** If the unit receives an audio signal that it can recognize, it will select an optimal decoder for playback in 7.1 channels. If the amplifier does not recognize the audio signal, it will not play in 7.1 channel automatically.
   - **OFF :** Dolby Digital Surround EX / DTS ES decoder will not be used for playback.
   - **ON :** Dolby Digital or DTS signal will be played in 7.1 channel using Dolby Digital Surround EX / DTS ES decoder.

✎ **NOTE**
- You cannot use DTS-ES without surround back speakers connected.

English **43**

Setup

Audio Sync

Video may look slower than the audio if it is connected to a digital TV. If this occurs, adjust the audio delay time to match the video.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲ ▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲ ▼ buttons to select **AUDIO SYNC**, and then press the **ENTER** button.
4. Press the ◄ ► buttons to set the AUDIO SYNC Delay Time.
   - You can adjust it from 0 to 240MS in 10MS steps.

```
OPTION
```

```
AUDIO      SYNC
```

```
SYNC        OFF
```

Tone Control

This will enable you to adjust the bass and treble level.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲ ▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲ ▼ buttons to select **TONE CONTROL**, and then press the **ENTER** button.
4. Press the ▲ ▼ buttons to select **TONE**, and then press the **ENTER** button.
5. Press the ▲ ▼ buttons to select ON or OFF you want, and then press the **ENTER** button.
   - If it is set to **TONE OFF**, the Tone Control function will be disabled.
6. Press the ▲ ▼ buttons to set the Tone Control mode you want.
   - BASS & TREBLE : Press the ◄ ► buttons to set from -6 to 6.
   - Each time you press this button, TONE → BASS → TREBLE will be selected in turn.
   - You can adjust it from -6 to +6dB by 1 step.
   - The sound gets quieter at -6dB and louder at +6dB.

```
OPTION
```

```
TONE CONTROL
```

```
TONE        OFF
```

✎ **NOTE**
- The Tone Control function can be applied to the front channels only.

MP3 Enhancer

This also helps enhance your sound experience (ex. mp3 music). Use this if you want to hear better sound from a low quality mp3 source.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **MP3 ENHANCER**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select **ON** or **OFF**.

```
OPTION
```

```
MP3 ENHANCER
```

```
ENHANCER OFF
```
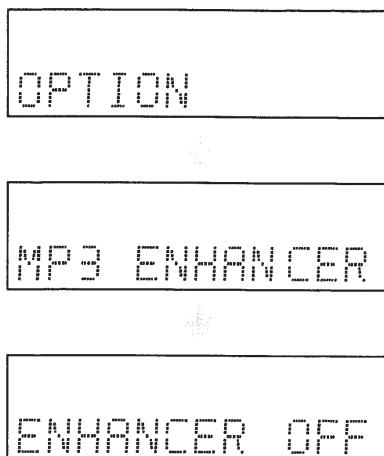
Smart Volume

This will regulate and stabilize the volume level against a drastic volume change when changing channels or during a scene transition.
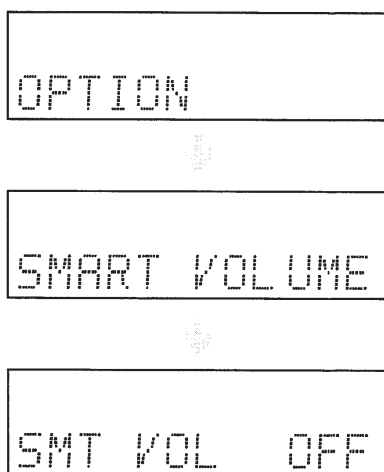
1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **SMART VOLUME**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select **ON** or **OFF.**

```
OPTION
```

```
SMART VOLUME
```

```
SMT VOL    OFF
```

Setup

Auto Calibration Setup

By setting the calibration just once when you relocate or install the unit, you can have the unit automatically recognize the distance between speakers, levels between channels, and frequency characteristics to create a 7.1-channel sound field optimized for your environment.

> **- Before Setting -**
> 1. Plug the ASC microphone into the **ASC MIC** jack.
> 2. Place the ASC microphone at the listening position.
> 3. Press the **ASC** button on the front panel, and then press the **ENTER** button.

1. Press the **SETUP/MENU** button on the remote control.
   • Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.

2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.

3. Press the ▲▼ buttons to select **AUTO CALIBRATION**, and then press the **ENTER** button.

4. Press the ▲▼ buttons to select **MEASUREMENT**, and then press the **ENTER** button.
   • To create the optimal 7.1 channel sound field, the selections are in the following sequence:
     L → C → R → SR → SBR → SBL → SL → SW
   • **MODE ON :** The auto calibration mode is set to on.
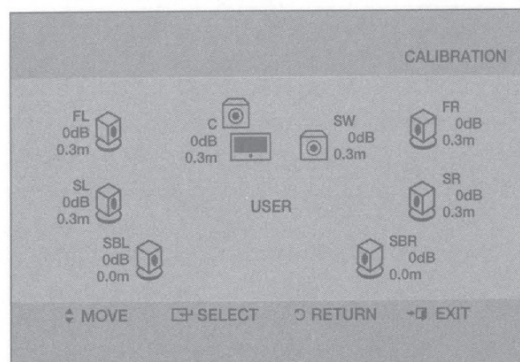   **MODE OFF :** The auto calibration mode is set to off.

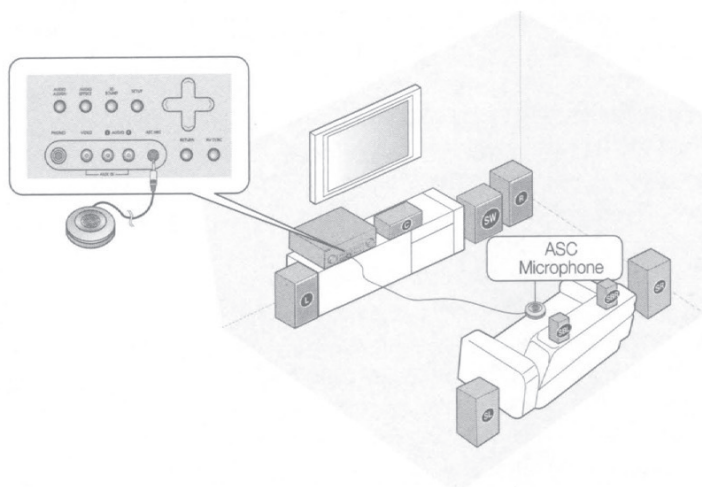### To cancel the Auto Calibration setup.

This will be automatically reverted if you press the **RETURN** button.

• If auto calibration error occurs, see "Auto Calibration Error List" on page 61.

✎ NOTE

- Setting the calibration takes about 3 minutes.
- Because the volume level of the tone is fixed during the Auto Calibration Setup, you cannot adjust the volume using the volume control.
- If the ASC microphone is disconnected during the Auto Calibration Setup, the setup will be canceled.
- You can also press the **ASC** button on the remote control to use this function.
- If Dolby Pro Logic ||z is set to ON, the selection are in the following sequence :
  FL → CEN → FR → SR → FHR → FHL → SL → SW.

DRC Setup

You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night. DRC compresses the audio to make the loudest sounds quieter and the quietest sounds louder.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **DRC**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to set the DRC you want.
   - **AUTO** : The Dynamic Range Control will be set automatically based on the information provided by the Dolby TrueHD Soundtrack.
   - **MIN** : Sets DRC effect to minimum.
   - **STD** : Sets DRC effect to standard.
   - **MAX** : Sets DRC effect to maximum.

Dual Mono Setup

Dual mono programs have two independent mono channels.
You can use this function when dual mono programs are played.
When you use this function, select audio channels CH1, CH2 or both Channel.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **DUAL MONO**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select the DUAL MONO option you want.
   - **CH1** : Channel 1 is heard only.
   - **CH2** : Channel 2 is heard only.
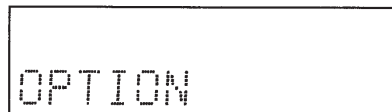   - **BOTH** : Both channels are heard from front speakers.
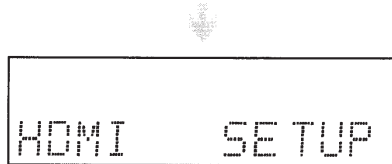
English **47**

Setup

HDMI Setup

Use this if you want to receive audio from HDMI connected external devices.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **HDMI SETUP**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to set the HDMI Setup mode you want, and then press the **ENTER** button.
5. Press the ▲▼ buttons to set you want.
   - **AUTO SYNC** : ON, OFF
     The AV receiver can be set to automatically correct any delay between the video and the audio, based on the data from the connected TV.
     - ON : HDMI Sync is enabled.
     - OFF : HDMI Sync is disabled.
   - **HDMI AUDIO** : AVR(Audio Video Receiver), TV
     This preference determines whether audio received at the HDMI IN is output by the HDMI OUT. If you want to listen to audio from an HDMI connected external device through your HDMI connected TV's speakers, set it to TV. Otherwise, leave it on AVR to listen to audio from the A/V receiver.
     - AVR : HDMI audio is not output   - TV : HDMI audio is output
   - **HDMI ANYNET+** : ON, OFF
     Anynet+ is a function that enables you to control other Samsung Devices with your Samsung TV's remote control.
     - ON : Anynet+ is enabled.
     - OFF : Anynet+ is disabled.
   - **ARC** : AUTO , OFF
     If you use the HDMI cable to connect between HDMI IN of an Audio Return Channel-compliant TV and HDMI OUT (ARC) of the main unit, you can listen to the TV sound through the main unit connected speaker without the further connection.
     - AUTO : The audio signal from the TV can be sent to the HDMI OUT of the main unit.
     - OFF : Turn TV ARC funtion off.

✎ **NOTE**
  ▪ HDMI Audio is enabled only if both the HDMI INPUT and HDMI OUT are connected properly and working normally.
  ▪ HDMI Sync function works only if your HDMI compatible TV supports this function.
  ▪ If HDMI ANYNET+ is set to OFF, TV ARC will be set to OFF accordingly that cannot switch to AUTO.
  ▪ The ARC function will be active only via the HDMI OUT terminal.

```
 OPTION
```

```
 HDMI    SETUP
```

```
 AUDIO    SYNC
```

Video Convert Setup

You can convert the incoming composite or component video signal into a maximum quality of the connected TV if you output the converted video via HDMI OUT.

1. Press the **SETUP/MENU** button on the remote control.
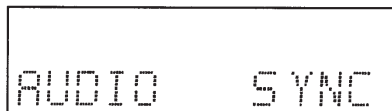   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.

2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.

3. Press the ▲▼ buttons to select **CONV. VIDEO**, and then press the **ENTER** button.

4. Press the ▲▼ buttons to select **BYPASS** or **AUTO**.

   - **BYPASS** : Converts the input video source into the digital counterpart without changing the resolution.
   - **AUTO** : Converts the incoming video signal before outputting in the maximum resolution that the connected TV supports.

```
OPTION
```

```
CONV. VIDEO
```

```
CONV. BYPASS
```

Video conversion flow according to the connected port

As shown in the illustration, if the unit's HDMI Out is connected to a TV or monitor, the analog video source (composite or component) from the video device is processed for up-conversion automatically for HDMI output.
If connected to a TV or monitor through Composite or Component ports, corresponding analog signal will be output respectively, without any conversion. In case if the unit and video source device is connected in multiple methods (HDMI, Component and Composite video) at the same time: Video input signal is automatically selected in the order of **Component Video → Composite Video**.
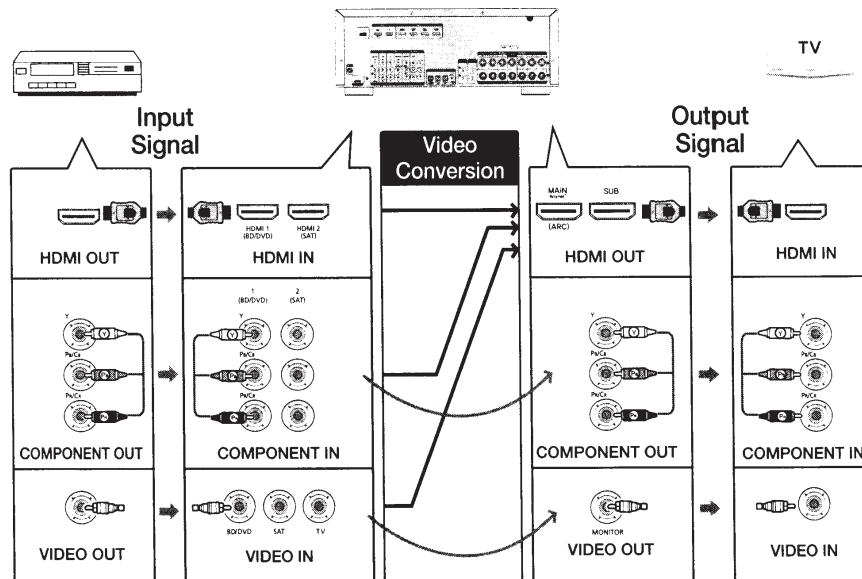
✎ **NOTE**

  ▨ This enables upconverting up to a quality of 1080p.
  ▨ Auto conversion is not applied to a video source incoming from HDMI IN port.

Using the Surround Modes

Using the AUDIO EFFECT Button On the Front of the Main Unit

Selecting the DPLIIx mode

1. Press the **AUDIO EFFECT** button to select **DPLIIx** mode.
   - Each time you press this button, **PROLOGIC II x** → **NEO:6** → **LIVE SURR.** → 3D SOUND will be selected in turn.
2. Press the **<, >** button.
   - Each time you press the **<, >** button, **MUSIC** → **GAME** → **MATRIX** → **PL** → **PL OFF** → **MOVIE** will be selected in turn.
   - If you turn Dolby Pro Logic IIz on, HEIGHT → PL OFF will be selected in turn.
   - You can also select the DPLIIx mode by pressing the **PROLOGIC** button on the remote control.

Selecting the NEO:6 mode

1. Press the **AUDIO EFFECT** button briefly to select **NEO:6** mode.
   - Each time you press this button, **PROLOGIC II x** → **NEO:6** → **LIVE SURR.** → 3D SOUND will be selected in turn.
2. Press the **<, >** button.
   - Each time you press the **<, >** button, **MUSIC** → **CINEMA** → **OFF** will be selected in turn.
   - You can also select the NEO:6 mode by pressing the **NEO : 6** button on the remote control.

Selecting the DSP mode

1. Press the **AUDIO EFFECT** button to select **DSP** mode.
   - Each time you press this button, **PROLOGIC II x** → **NEO:6** → **LIVE SURR.** → 3D SOUND will be selected in turn.
2. Press the **<, >** button.
   - Each time you press the **<, >** button, **STEREO** → **HALL 1**→ **HALL 2** → **J.CLUB** → **CHURCH** → **ROCK** → **CLASSIC** → **LIVE** → **GAME** → **MOVIE** → **CONCERT** → **STADIUM** will be selected in turn.
   - You can also select the DSP mode by pressing the **DSP** button on the remote control.

Selecting the 3D SOUND mode

1. Press the **AUDIO EFFECT** button to select **3D SOUND** mode.
   - Each time you press this button, **PROLOGIC II x** → **NEO:6** → **LIVE SURR.** → 3D SOUND will be selected in turn.
2. Press the **<, >** button.
   - Each time you press the **<, >** button, **3D SOUND ON** → **3D SOUND OFF** will be selected in turn.
   - You can also select the 3D SOUND mode by pressing the **3D SOUND** button on the remote control.

✎ **NOTE**
- The 3D sound effect will not be available for Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio and DTS-HD High Resolution Audio.
- You cannot use Dolby Pro Logic IIx mode for Analog multi channel signals, LPCM multi channel signals from HDMI, Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio and DTS-HD High Resolution Audio.
- Pro Logic works with the audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.
- The 3D sound effect will not be available for FM.

Using the S.DIRECT Button

Output the original signal as it is without applying the sound field effect or any other sound effect.

Press the **S.DIRECT** button.

✎ NOTE

- The screen will display "DIRECT" instead of "S.DIRECT".

Input Signal and Surround Chart

o = active, − = inactive

Input Signal	Surround Mode	Output Channel					Display Information	
		L/R	C	SL SR	SBL SBR	SUBW	Signal Format	Channel Status
Dolby Digital	Dolby Digital	O	O	O	−	O	Digital + Dolby Digital	L, C, R, SL, SR, SW
Dolby Digitital EX	Dolby Digital EX	O	O	O	O	O	Digital +Dolby Digital EX	L, C, R, SL, SR ,SBL, SBR, SW
	Dolby Digital + ProLogic IIx	O	O	O	O	O	Digital + Dolby Digital + ProLogic IIx	L, C, R, SL, SR ,SBL, SBR, SW
	Dolby Digital + ProLogic IIz	O	O	O	O (Height)	O	Digital + Dolby Digital + ProLogic IIz	L, C, R, SL, SR, H, SW
Dolby Digital Plus	Dolby Digital Plus	O	O	O	O	O	Digital + Dolby Digital Plus	L, C, R, SL, SR ,SBL, SBR, SW
Dolby TrueHD	Dolby TrueHD	O	O	O	O	O	Dolby TrueHD	L, C, R, SL, SR ,SBL, SBR, SW
DTS (5.1-ch)	DTS Surround	O	O	O	−	O	DTS	L, C, R, SL, SR, SW
DTS-ES	DTS Digital + ProLogic IIx	O	O	O	O	O	DTS + ProLogic IIx	L, C, R, SL, SR ,SBL, SBR, SW
DTS 96/24	DTS Digital + ProLogic IIz	O	O	O	O (Height)	O	DTS + ProLogic IIz	L, C, R, SL, SR ,SBL, SBR, SW
	DTS-ES	O	O	O	O	O	DTS ES	L, C, R, SL, SR ,SBL, SBR, SW
	DTS 96/24	O	O.	O	−	O	DTS 96/24	L, C, R, SL, SR, SW
DTS-HD	DTS-HD Master Audio	O	O	O	O	O	DTS-HD MSTR	L, C, R, SL, SR ,SBL, SBR, SW
	DTS-HD High Resolution	O	O	O	O	O	DTS-HD	L, C, R, SL, SR ,SBL, SBR, SW
LPCM Multi-Channel	Multi-Channel	O	O	O	O	O	Digital + LPCM	L, C, R, SL, SR, SBL, SBR, SW
	Multi-Channel	O	O	O	O (Height)	O	Digital + LPCM	L, C, R, SL, SR, H, SW
2-ch PCM	Stereo	O	−	−	−	O	Digital + LPCM	L, R, SW
	ProLogic IIx	O	O	O	O	O	Digital + LPCM + Dolby Digital + ProLogic IIx	L, C, R, SL, SR ,SBL, SBR, SW
	ProLogic IIz	O	O	O	O (Height)	O	Digital + LPCM + Dolby Digital + ProLogic IIz	L, C, R, SL, SR, H, SW
	NEO:6	O	O	O	O	O	Digital + LPCM + DTS + NEO:6	L, C, R, SL, SR ,SBL, SBR, SW
	SFE	O	O	O	O	O	Digital + LPCM + LIVE SURR	L, C, R, SL, SR ,SBL, SBR, SW
Analog 2-ch	Stereo	O	−	−	−	O	Analog	L, R, SW
	ProLogic IIx	O	O	O	O	O	Analog + Dolby Digital + ProLogic IIx	L, C, R, SL, SR ,SBL, SBR, SW
	ProLogic IIz	O	O	O	O (Height)	O	Analog + Dolby Digital + ProLogic IIz	L, C, R, SL, SR, H, SW
	NEO:6	O	O	O	O	O	Analog + DTS NEO:6	L, C, R, SL, SR ,SBL, SBR, SW
	SFE	O	O	O	O	O	Analog + LIVE SURR	L, C, R, SL, SR ,SBL, SBR, SW

- **L/R** : front speaker (left/right)
  C : center speaker
  SL/SR : surround speaker (left/right)
  SBL/SBR : surround back speaker (left/right)
  H = FHL/FHR : front height speaker (left/right)
  SW : subwoofer

- **LIVE SURR** : LIVE SURROUND

English **51**

Operation

✎ **NOTE**

 ▧ Channel status displays are dependent on the speaker configuration.
 ▧ SFE mode works with 2-ch signals.
 ▧ If Dolby Pro Logic IIz is set to On, the Surround Back speaker(SBL/SBR) is changed to the Front Height Speaker(FHL/FHR), Dolby true HD, Dolby plus, DTS-HD Audio ,SFE and NE0:6 will be output 5.1 channel.
 ▧ ProLogic IIx and ProLogic IIz works only audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.

Using the SUBWOOFER button

You can set the subwoofer Level.

1. Press the **SUBWOOFER** button.
2. Press the ◄ ► buttons to select Subwoofer LEVEL under the Display with S.W. (The display disappears automatically.)

```
S.W          +01  dB
```

- Setting the Subwoofer Level-
 • SW (Subwoofer) : -10 ~ +10dB

Listening to the Radio

You can listen to the radio by using either automatic or manual tuning.

1. Press the **INPUT SELECT** button on the remote control to select **FM**.
2. Select a frequency (radio broadcast).
   • Preset tuning :
     Press the I◄◄,►►I buttons on the remote control to select the preset frequency.
   • Manual tuning 1 (Automatic tuning):
     Press and hold the **TUNING/CH** (∨,∧) buttons on the remote control to automatically tune in a frequency.
   • Manual tuning 2 :
     Press the **TUNING/CH** (∨,∧) buttons on the remote control to increase or decrease the frequency step by step.

✎ **NOTE**

 ▧ You can also use the **SELECT** (∨,∧) button on the main uint to change the radio frequency.

To Listen in Mono/Stereo

Press the **MO/ST** button on the remote control.
- Each time you press this button, **STEREO** or **MONO** will be selected in turn.
- If you select **MONO** in an area with weak reception, it will help to reduce noise.
- This function works only with the remote control.

Presetting Radio Stations

You can preset up to 15 FM stations.

E.g.: Setting station FM 89.10 in preset 2.

1. Press the **INPUT SELECT** button on the remote control to select **FM**.
2. Press the **TUNING/CH** (∨,∧) buttons on the remote control to select 89.10.
   - Refer to step 2 above to tune in automatically and manually.
3. Press the **TUNER MEMORY** button on the main unit.
   - You can also use the **TUNER MEMORY** button on the remote control.
   - Tuner number will blink on the display.
4. Press the **TUNING/CH** (∨,∧) buttons on the remote control to select preset 2.
   - You can select from presets 1 to 15.
5. Press the **TUNER MEMORY** button on the main unit.
   - Tuner number will disappear and station 89.10 will be saved in preset 2.
6. To preset other stations, repeat steps 2 to 5.
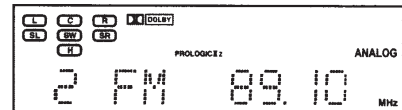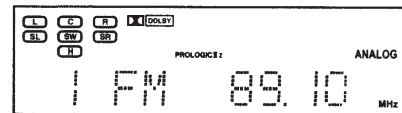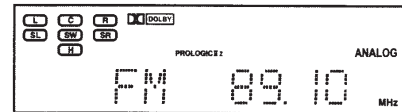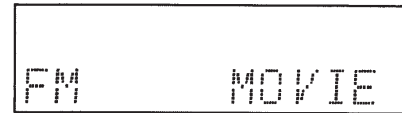
To Listen to Preset Station
- Press the **TUNING MODE** button to select **PRESET** and press the **SELECT** (∨,∧) buttons.

Operation

You can enjoy playback of your iPod using the supplied remote control.

Listening to Music (iPod audio function)

You can play music files stored in the iPod player by connecting it to the AV receiver.

1. Connect the iPod dock connector to the iPod jack on the AV Receiver.
2. Place the iPod in the dock.
   • Your iPod is automatically turned on.
3. Press the **INPUT SELECT** button on the remote control to select **IPOD AUDIO** mode.
4. Press the **PLAY** button on the remote control to play.
   • The AV receiver starts playing from the first track of the iPod player.
5. You can use the remote control to control simple playback functions such as the **PLAY, PAUSE, STOP, SKIP (I◀◀,▶▶I)** buttons.
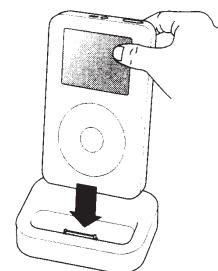
✎ NOTE

※ See page 29 for compatible iPods.
  Compatibility depends on the software version of your iPod.
※ You can also select iPod by pressing the **iPod** button on the remote control.

Watching a Movie (iPod video function)

You can play video files stored in the iPod player on a TV by connecting it to the AV receiver.

1. Connect the iPod dock connector to the iPod jack on the AV receiver.
2. In the iPod screen, move to **Videos > Settings** and set the **TV Out** option to **On**.
3. Place the iPod in the dock.
4. Press the **INPUT SELECT** button on the remote control to select **IPOD VIDEO** mode.
5. Set the AV IN option of the TV connected to the AV receiver to COMPOSITE.

Settings	⊏⊐
TV Out	On

<iPod Screen>
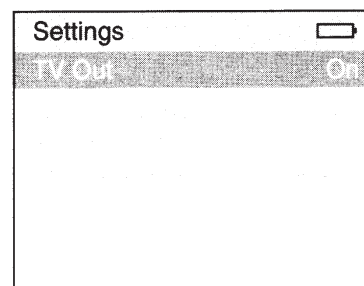
Follow the iPod onscreen guide through the following steps.

6. Press the ▲,▼ buttons on the remote control to select **Videos** and press the **ENTER** button.
7. Press the ▲,▼ buttons on the remote control to select **Movies** and press the **ENTER** button.
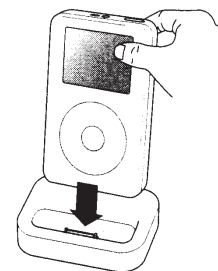
8. Press the ▲,▼ buttons to select the file to play and press the **ENTER** button.

 • The iPod's video files will be played on the TV screen.

9. You can use the remote control to control simple playback functions such as the **PLAY, PAUSE, STOP, SKIP (I◄◄,►►I)** buttons.

 • If you press the **PREV** button after the playback, the player will move to the start screen of the current file.
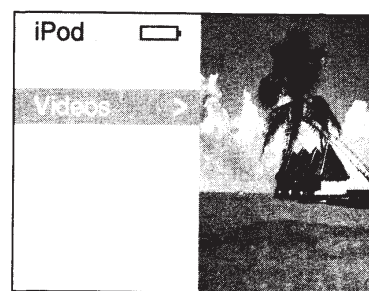 • Press the **STOP** button to stop playing and return to the list screen.
 • Press the **RETURN** button to return to the previous menu.

\<iPod Screen\>

✎ **NOTE**

▪ Before you can play the video files in the iPod player, you must connect the Audio/Video terminals of the TV to the receiver using the Composite (A/V) cable.
▪ See page 29 for compatible iPods.
 Compatibility depends on the software version of your iPod.
▪ When the current file is played to the end, the next file will not be played automatically.
 To play the next file, select a file to play in the list screen of the iPod player.
▪ No other screen than the playback one will appear on the TV screen. Check other screens on the iPod player.

Convenient Functions

Sleep Timer Function

You can set the time that this unit will shut itself off.

Press the **SLEEP** button.
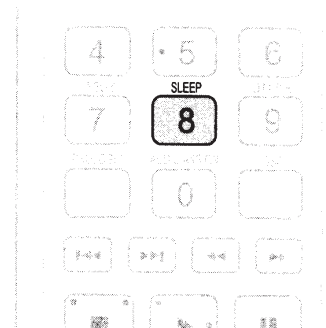 • SLEEP : OFF → 10M → 20M → 30M → 60M → 90M → 120M → 150M will be selected in turn.

To check sleep timer

Press the **SLEEP** button.
 • The remaining time before this unit will shut itself off is shown on the display.
 • Pressing the button again changes the sleep time from what you set previously.

To cancle sleep timer

 • Press the **SLEEP** button until **SLEEP OFF** appears on the display.

Operation

Mute Function

This function is useful when answering a doorbell or telephone call.

Press the **MUTE** button.
- MUTE appears on the display.

To output sound again

Press the **MUTE** button again or press the Volume button.
- MUTE will disappear and sound will output.
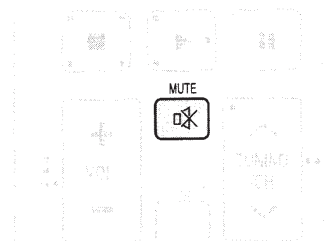
Adjust the Display

You can adjust the brightness of the display.

Press the **DIMMER** button.
- Each time you press this button, the brightness changes as follows :
  Dark → Bright.

✎ **NOTE**
- SLEEP, Mute and the Adjust Display functions can only be operated with the remote control.
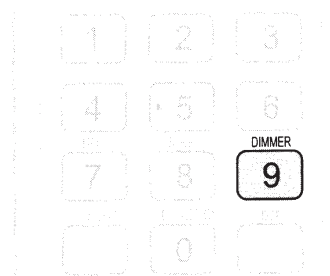
Reset Function

When the Power is on,

1. Press the **MUTE** button.
   - **MUTE** appears on the display.
2. Press the **2** button five times and then press the **ENTER** button.
   - **INITIAL : NO** appears on the display.
3. Press the ◄ ► buttons to select **YES**.
   - The unit will turn off after 5 seconds.

When the Power is Off,

1. Press and hold the **TUNER MEMORY** button on the front of your AV Receiver for longer than 5 seconds.
   - **POWER LED** will blink one time.

✎ **NOTE**
- Using the RESET function will erase all stored settings.
- Do not use this unless necessary.
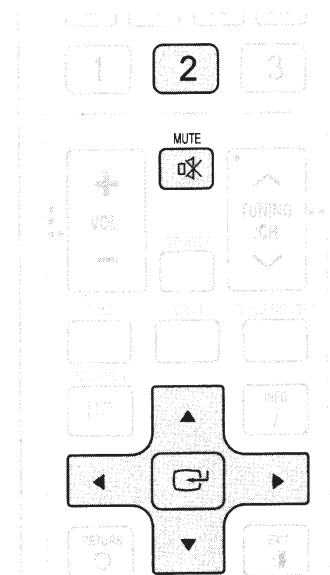
Using Headphones

Use headphones (not supplied) for private listening pleasure.
Connect the headphones to the headphone (PHONES) jack and listen to music.

✎ NOTE

▓ Do not turn the volume up too high when you use headphones as it may damage your hearing.

Software Upgrade

Samsung may offer upgrades for AV Receiver's firmware in the future.

Please visit Samsung.com or contact the Samsung call center at 1-800-SAMSUNG (726-7864) to receive information about downloading upgrades and using a USB drive. Upgrades will be possible by connecting a USB drive to the USB port located on your AV Receiver.

✎ NOTE

▓ Insert a USB drive containing the firmware upgrade into the USB port on the back of the main unit.
▓ Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The main unit will turn off automatically after completing the firmware upgrade.
When software is upgraded, settings you have made will return to their default (factory) settings. We recommend you write down your settings so that you can easily reset them after the upgrade.
▓ If you failed software upgrade, it is strongly recommended whole USB data format to FAT16 and retry software upgrade.
▓ The NTFS USB File System can not be supported.
▓ Depending on the manufacturer, the USB may not be supported.

Miscellaneous
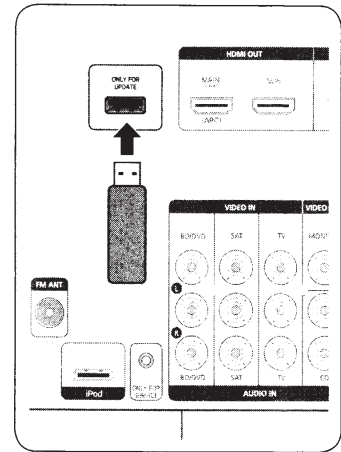
1. Press the **POWER** button to turn on the TV.

2. Press the **TV** button to set the remote to TV mode.

3. Point the remote control toward the TV.

4. While holding down the **POWER** button, enter the code corresponding to your brand of TV.
   - If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.
   - If the code matches the TV's code, the TV will be turned off.

5. If TV is turned on or off when you press the **POWER** button of the remote control, the setting is completed.
   - You can use the TV POWER, VOLUME, CHANNEL, MENU and Numeric buttons (0~9).

✎ NOTE

- The remote control may not work on some brands of TVs. Also, some operations may not be possible depending on your brand of TV.
- The remote control will work with Samsung TVs by default.

TV Brand Code List

Brand	Code	Brand	Code	Brand	Code
Admiral (M.Wards)	56, 57, 58	Hitachi	15, 18, 50, 59, 69	Realistic	03, 19
A Mark	01, 15	Inkel	45	Sampo	40
Anam	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14	JC Penny	56, 59, 67, 86	Samsung	00, 15, 16, 17, 40, 43, 46, 47, 48, 49, 59, 60, 98
		JVC	70		
AOC	01, 18, 40, 48	KTV	59, 61, 87, 88	Sanyo	19, 61, 65
Bell & Howell (M.Wards)	57, 58, 81	KEC	03, 15, 40	Scott	03, 40, 60, 61
		KMC	15	Sears	15, 18, 19
Brocsonic	59, 60	LG (Goldstar)	01, 15, 16, 17, 37, 38, 39, 40, 41, 42, 43, 44	Sharp	15, 57, 64
Candle	18			Signature 2000 (M.Wards)	57, 58
Cetronic	03	Luxman	18		
Citizen	03, 18, 25	LXI (Sears)	19, 54, 56, 59, 60, 62, 63, 65, 71	Sony	50, 51, 52, 53, 55
Cinema	97	Magnavox	15, 17, 18, 48, 54, 59, 60, 62, 72, 89	Soundesign	03, 40
Classic	03	Marantz	40, 54	Spectricon	01
Concerto	18	Matsui	54	SSS	18
Contec	46	MGA	18, 40	Sylvania	18, 40, 48, 54, 59, 60, 62
Coronado	15	Mitsubishi/ MGA	18, 40, 59, 60, 75		
Craig	03, 05, 61, 82, 83, 84			Symphonic	61, 95, 96
Croslex	62	MTC	18	Tatung	06
Crown	03	NEC	18, 19, 20, 40, 59, 60	Techwood	18
Curtis Mates	59, 61, 63	Nikei	03	Teknika	03, 15, 18, 25
CXC	03	Onking	03	TMK	18, 40
Daewoo	02, 03, 04, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 34, 35, 36, 48, 59, 90	Onwa	03	Toshiba	19, 57, 63, 71
		Panasonic	06, 07, 08, 09, 54, 66, 67, 73, 74	Vidtech	18
Daytron	40	Penney	18	Videch	59, 60, 69
Dynasty	03	Philco	03, 15, 17, 18, 48, 54, 59, 62, 69, 90	Wards	15, 17, 18, 40, 48, 54, 60, 64
Emerson	03, 15, 40, 46, 59, 61, 64, 82, 83, 84, 85	Philips	15, 17, 18, 40, 48, 54, 62, 72	Yamaha	18
		Pioneer	63, 66, 80, 91	York	40
Fisher	19, 65	Portland	15, 18, 59	Yupiteru	03
Funai	03	Proton	40	Zenith	58, 79
Futuretech	03	Quasar	06, 66, 67	Zonda	01
General Electric (GE)	06, 40, 56, 59, 66, 67, 68	Radio Shack	17, 48, 56, 60, 61, 75	Dongyang	03, 54
Hall Mark	40	RCA/Proscan	18, 59, 67, 76, 77, 78, 92, 93, 94		

Operating your DVD or BD Player with the Remote Control

1. Press the **POWER** button to turn on the DVD (BD) player.
2. Press the **BD/DVD** button on the remote control to set the remote to DVD (BD) mode.
3. Point the remote control toward the DVD (BD).
4. While holding down **POWER** button, enter the code corresponding to your brand of DVD (BD).
   - If there is more than one code listed for your DVD (BD) in the table, enter one at a time to determine which code works.
   - If the code matches the DVD (BD)'s code, the DVD (BD) will be turned off.
5. If DVD (BD) is turned on or off when you press the **POWER** button of the remote controller, the setting is completed.
   - You can use DVD (BD) POWER, PLAY, PAUSE, STOP, SKIP, MENU and Numeric buttons (0~9).

✎ **NOTE**

▓ The remote control may not work on some brands of DVD.
   Also, some operations may not be possible depending on your brand of DVD.
▓ The remote control will work with Samsung DVD (BD) by default.

DVD Brand Code List

Brand	Code Number	Brand	Code Number	Brand	Code Number
DENON	003, 032	ONKYO	004, 014	TOSHIBA	004, 018
DOONOON	019	OPTIMUS	011	YAMAHA	009, 033
DMTECH	017	PANASONIC	021	ZENITH	004, 024
FISHER	002	PROSCAN	006	TAEGWANG	026
GE	006	PHILIPS	004, 023	PS2	028
HARMAN/KARDON	012	PIONEER	007, 011, 022, 025	X-BOX	029
JVC	010, 013	RCA	006	APEX	030
KENWOOD	008	SAMSUNG	000, 027	Marantz	031
LG	001	SANYO	002		
MAGNAVOX	004	SONY	015, 020		
MITSUBISHI	005, 016	THETA DIGITAL	011		

BD Player Brand Code List

Brand	Code Number
SAMSUNG	000, 001, 002, 003, 004

✎ **NOTE**

▓ The remote control will control Samsung BD players only.

Other Information

Troubleshooting

Before requesting service, please check the following.

Symptom	Check	Remedy
The unit will not turn on.	• Is the power cord plugged into the outlet?	• Connect the power plug to the outlet.
A function does not work when the button is pressed.	• Is there static electricity in the air?	• Disconnect the power plug and connect it again.
Sound is not produced.	• Are the speakers and external components connected properly? • Is the Mute function on? • Is the volume set to minimum? • Is the Speaker Size set incorrectly to NONE?	• Connect them correctly. • Press the **MUTE** button to cancel the function. • Adjust the volume. • Refer to pages 37 to select LARGE, SMALL or YES.
Picture does not appear on a TV when the function is selected.	• Is the external component connected properly?	• Connect it correctly.
Remote controller does not work.	• Are the batteries drained? • Is the distance between remote control and main unit too great?	• Replace with new batteries. • Operate at close distance.
The sound from the left/right channels is reversed.	• Are the left/right speaker or left/right input/output cables connected properly?	• Check the left/right channel and connect it/them correctly.
Can't receive radio broadcasts.	• Is FM antenna connected properly?	• Connect the antenna correctly. • If the input strength of antenna signal is weak, install the FM antenna in a place with good reception.
There is no sound from surround speakers.	• Are the surround speakers connected properly? • Is SURR (surround) incorrectly set to NONE in the Speaker Size? • Is surround mode set to stereo?	• Refer to page 18 to connect them properly. • Refer to page 37 to select LARGE or SMALL. • Refer to pages 50 ~ 52 to select proper Surround Mode.
There is no sound from surround back speakers	• Are the surround back speakers connected properly? • Is SBACK (Surround Back) set to NONE in the Speaker Size? • Is Surround Mode set to EX/ES?	• Refer to page 18 to connect them properly. • Refer to page 37 to select LARGE or SMALL. • Refer to page 43 to set Surround Mode to EX/ES.
Can't select EX/ES mode.	• Is SBACK (Surround Back) set to NONE in the Speaker Size? • Is the input signal selected properly?	• Refer to page 37 to select LARGE or SMALL. • Use a 7.1 channel external component.

60 English

Symptom	Check	Remedy
Can't select Dolby Pro Logic IIx mode.	• Is the input signal selected properly?	• Only 2 channel signal can select Dolby Pro Logic IIx mode. (ex:Dolby Digital, PCM, 2 channel analog input signal.)
Can't select NEO:6 mode.	• Is the input signal selected properly?	• Use PCM and Analog input signal.
There is no sound when playing a DTS encoded DVD.	• Is Digital input selected?	• Check whether the DVD player is properly connected and refer to page 32 to select the digital input.

Product Protection Function

Heat protection

• The protection function will come on if the main unit or power transformer overheats.

"PROTECTION" will appear in the display .

This function will come on :
- If speaker terminal is shorted
- If speaker cable is shorted
  If there is no problem when you turn the unit on again after turning it off, PROTECTION mark will disappear on the display and the unit will work properly.

Auto Calibration Error List

Error No.	Auto Calibration Error Message on OSD
E02 NO MIC	Connect the calibration microphone.
E03 NOISY	Keep quiet during the measurement.
E04 MIC LEVL	The speaker are too close to the microphone. Install all speakers and the calibration microphone at the proper location.
E05 NO FRONT	Connect the front speaker correctly.
E07 LEVL OVR	Install all speakers and the calibration microphone at the proper location.
E08 DIST OVR	Some speakers are too far from calibration microphone. Install all speakers and the calibration microphone at the proper location.
E13 TIME OVR	Unplug and re-plug the power cable. Then, perfrom the measurement again.
E14 CODE ERR	Unplug and re-plug the power cable. Then, perfrom the measurement again.

Other Information

Specifications

GENERAL	Power supply		120V, 60 Hz
	Standby power consumption		0.9W
	Power consumption	Main unit	75W
		Subwoofer	35W
	Weight		13.67 lbs
	Dimensions (W x H x D)		16.9 x 6.5 x 14.2 inches
	Operating temperature range		41°F~+95°F
	Operating humidity range		10%~75%
FM TUNER	Frequency response		87.5~108.0MHz
	Usable sensitivity		12dBf
	S/N ratio		MONO/STEREO 55/55dB
	Distortion		MONO/STEREO 0.3/0.8%
	Stereo separation		30dB
	Tuner output level		1kHz, 75kHz Dev
AMPLIFIER	Rated output		20Hz~20kHz/THD = 0.9%
	Front speaker (left+right)		6 Ω 120W/CH
	Center speaker		6 Ω 120W/CH
	Surround speaker (left+right)		6 Ω 120W/CH
	Surround back speaker (left+right)		6 Ω 120W/CH
	Subwoofer speaker		8 Ω 150W/CH
	Input sensitivity/impedance		450mV/47kΩ
	S/N ratio (analog input)		80dB
	Separation (1kHz)		60dB
FREQUENCY RESPONSE	Analog input		20Hz~20kHz(±3dB)
	Digital input/96kHz PCM		20Hz ~44kHz(±3dB)
HDMI	Input		Compatible 1080p
	Output		Compatible 1080p
VIDEO OUTPUT	TV format		NTSC/PAL
	Input level/impedance		1Vp-p/75 Ω
	Output level/impedance		1Vp-p/75 Ω
	Video frequency response		5Hz to 10kHz(-3dB)
	S/N Ratio		60dB

* S/N Ratio, Distortion, Separation and Usable sensitivity are based on measurement using AES (Audio Engineering Society) guidelines.

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.
- Design and specifications are subject to change without prior notice.

62 English

SAMSUNG AV receiver

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by Samsung Electronics America, Inc. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

One (1) Year Parts and Labor*
(*90 days Parts and Labor for Commercial Use)

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. Transportation of the product to and from the service center is the responsibility of the purchaser.

SAMSUNG will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

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Code No. AH68-02354X

quick start guide

1 Front panel
2 Remote control functions
3 Connecting the speakers
4 Connecting external devices

AV Receiver System
HW-D700/HW-D770S

1 Front panel

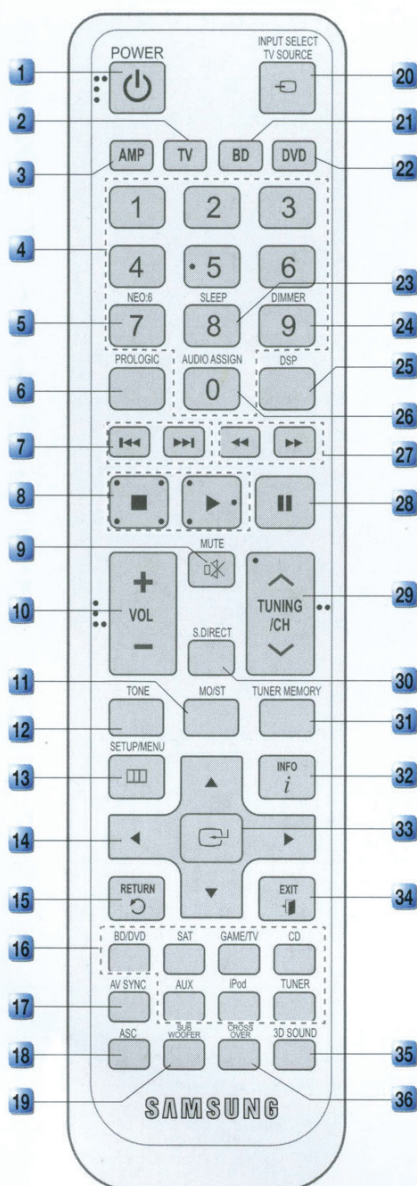|		
1	INPUT SELECT CONTROL	Used to select a source. FM → TV → BD/DVD → SAT → GAME → AUX → CD → IPOD AUDIO → IPOD VIDEO
2	SETUP BUTTON	Displays the SETUP menu.
3	AUDIO ASSIGN BUTTON	Toggles to select an input mode for the selected source.
4	AUDIO EFFECT BUTTON	Toggles to select a surround sound mode.
5	3D SOUND BUTTON	Press to apply 3D Sound effect.
6	DISPLAY	Displays the speaker/audio input status, listening mode, etc.
7	UP(∧), DOWN(∨), LEFT(<), RIGHT(>) BUTTONS	Used to move the cursor up, down, left or right. Also used to select detailed options in the AUDIO EFFECT mode and to change the tone level.
8	Bi-AMP INDICATOR	The indicator lights on when you turn on Bi-AMP.
9	ENTER BUTTON	Used to select an item in the SETUP menu.
10	TONE CONTROL BUTTON	Used to set the bass, treble level and tone to on/off.
11	ASC BUTTON	Used to select the auto calibration mode.
12	MASTER VOLUME CONTROL	Adjusts the volume level.
13	POWER BUTTON (⏻)	Turns the receiver on/off.
14	PHONES JACK	Used to connect a set of headphones.
15	AUX IN JACKS	Auxiliary AV input terminals used to connect a camcorder, portable DVD player or gaming device.
16	ASC MIC JACK	Used to connect the ASC MIC for setting up Auto calibration.

Thank you for purchasing this Samsung Digital Surround AV Receiver System.
We have manufactured this product to provide you with many hours of Audio/Video Entertainment.
This "QUICK START GUIDE" guide has been included to get you up and running in the least amount of time as possible.

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

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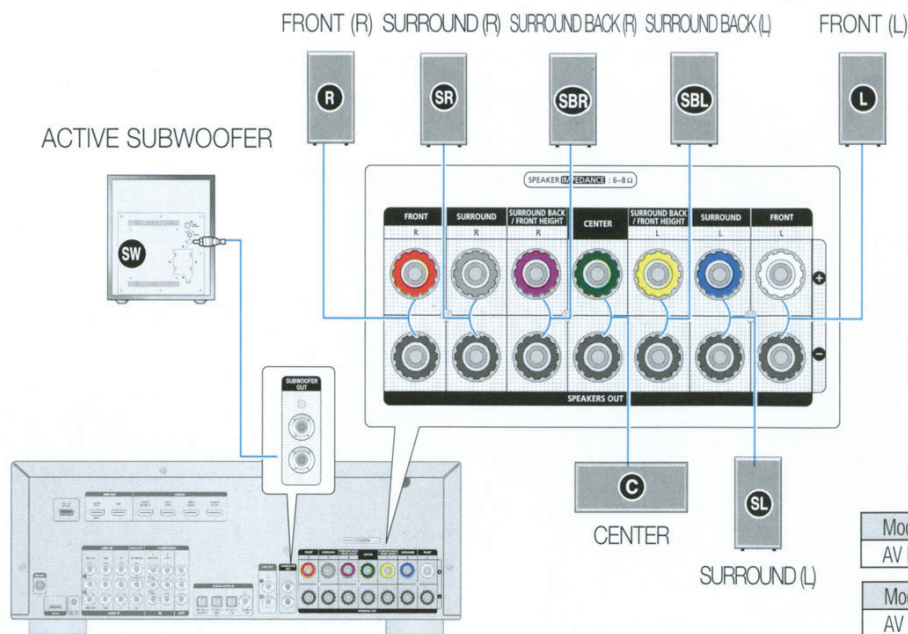www.samsung.com/us

1 Front panel

17	RETURN BUTTON	Return to the previous menu.
18	AV SYNC BUTTON	Used to select the Audio Delay Mode.
19	TUNING MODE BUTTON	Used to select the Manual or Preset mode for FM radio.
20	SELECT BUTTON	Used to change the radio frequency.
21	TUNER MEMORY BUTTON	Used to set a preset radio frequency.
22	S.DIRECT BUTTON	Used to select the S.DIRECT mode. (Output the original signal as it is without applying the sound field effect or any other sound effect.)

2 Remote control functions

1 POWER BUTTON
Turns the receiver on/off.

2 TV BUTTON
To change to TV mode, press the TV button.

3 AMP BUTTON
To change to AMP mode, press the AMP button.

4 NUMBER BUTTONS
Used to select a TV channel.

5 NEO : 6 BUTTON
Select the desired NEO:6 mode.

6 PROLOGIC BUTTON
Select the desired Dolby Pro Logic audio mode.

7 SKIP BUTTONS
Press to skip backwards or forwards on a connected DVD/BD player or iPod.

8 STOP/PLAY BUTTON
Press to stop/start playback on a connected DVD/BD player or iPod.

9 MUTE BUTTON
Mutes the sound of a connected device.

10 VOLUME CONTROL BUTTONS
Adjusts the volume of the selected device.

11 MO/ST BUTTON
Select MONO or STEREO for radio broadcasts.

12 TONE BUTTON
Used to set a preset radio frequency.

13 SETUP/MENU BUTTON
Displays the SETUP menu.

14 UP/DOWN/LEFT/RIGHT BUTTONS
Used to navigate the menus.

15 RETURN BUTTON
Used to return to the previous menu from the SETUP menu.

16 FUNCTION SELECTOR BUTTONS
Used to select an input source.

17 AV SYNC BUTTON
Used to select the Audio Delay Mode.

18 ASC BUTTON
Used to set the Auto Sound Calibration function.

19 SUBWOOFER BUTTON
Used to select the Subwoofer.

20 INPUT SELECT, TV SOURCE BUTTON
Toggles to find and select an input source.
Press to select a connected TV's video source.

21 BD BUTTON
To change to BD mode, press the BD button.

22 DVD BUTTON
To change to DVD mode, press the DVD button.

23 SLEEP BUTTON
Used to set the Sleep Timer.

24 DIMMER BUTTON
Adjusts the brightness of the display.

25 DSP BUTTON
Used to select the SFE mode.

26 AUDIO ASSIGN BUTTON
Toggles to select an input mode for the selected source.

27 SEARCH BUTTON
Press to search backwards or forwards.

28 PAUSE BUTTON
Pauses playback on a connected device.

29 TUNING/CHANNEL BUTTONS
Used to change the radio broadcasting frequency or TV channel.

30 S.DIRECT BUTTON
Press to select S.DIRECT mode.

31 TUNER MEMORY BUTTON
Used to set a preset radio frequency.

32 INFO BUTTON
Display information on the connected device currently being used.

33 ENTER BUTTON
Used to select an item in the SETUP menu.

34 EXIT BUTTON
Exits the SETUP menu.

35 3D SOUND BUTTON
Press to apply 3D Sound effect.

36 CROSS OVER BUTTON
Press to adjust the crossover frequency.

3 Connecting the speakers

FRONT (R) SURROUND (R) SURROUND BACK (R) SURROUND BACK (L) FRONT (L)

ACTIVE SUBWOOFER

SPEAKER IMPEDANCE : 6~8 Ω

FRONT | SURROUND | SURROUND BACK / FRONT HEIGHT | CENTER | SURROUND BACK / FRONT HEIGHT | SURROUND | FRONT

SPEAKERS OUT

CENTER

SURROUND (L)

Model HW-D700	
AV Receiver	HW-D700

Model HW-D770S	
AV Receiver	HW-D700
FRONT SPEAKER	PS-FC770S
CENTER SPEAKER	PS-CC770S
SURROUND SPEAKER	PS-RC770S
SURROUND BACK SPEAKER	PS-BC770S
ACTIVE SUBWOOFER	PS-AW730

* Speakers are provided with model HW-D770S only. Model HW-D700 does not come with speakers.
* One Active Subwoofer is provided, if you would like to use another, purchase it from the retailer where you bought the player and connect it to the other SUBWOOFER OUT Jack.

Connecting Speaker Wire

1. Loosen the knob by turning counterclockwise.
2. Insert the bare part of the wire into the hole in the side of each terminal.
3. Tighten the knob by turning clockwise to secure the wire.

1. 2. 3.
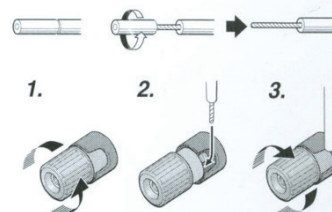
Connecting the Speakers

1. Press down the terminal tab on the back of the speaker.
2. Insert the black wire into the black terminal (−) and the red wire into the red (+) terminal, and then release the tab.
3. Connect the connecting plugs to the back of the AV Receiver.
   • Make sure the colors of the speaker terminals on the back of the AV receiver match the colors of the connecting plugs.

(−) (+)

Black ——— Red

(−) (+)
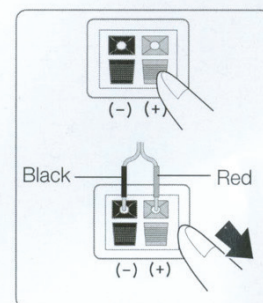
Connecting External Devices/your TV via HDMI

We recommend using HDMI connections for the best quality video and audio.
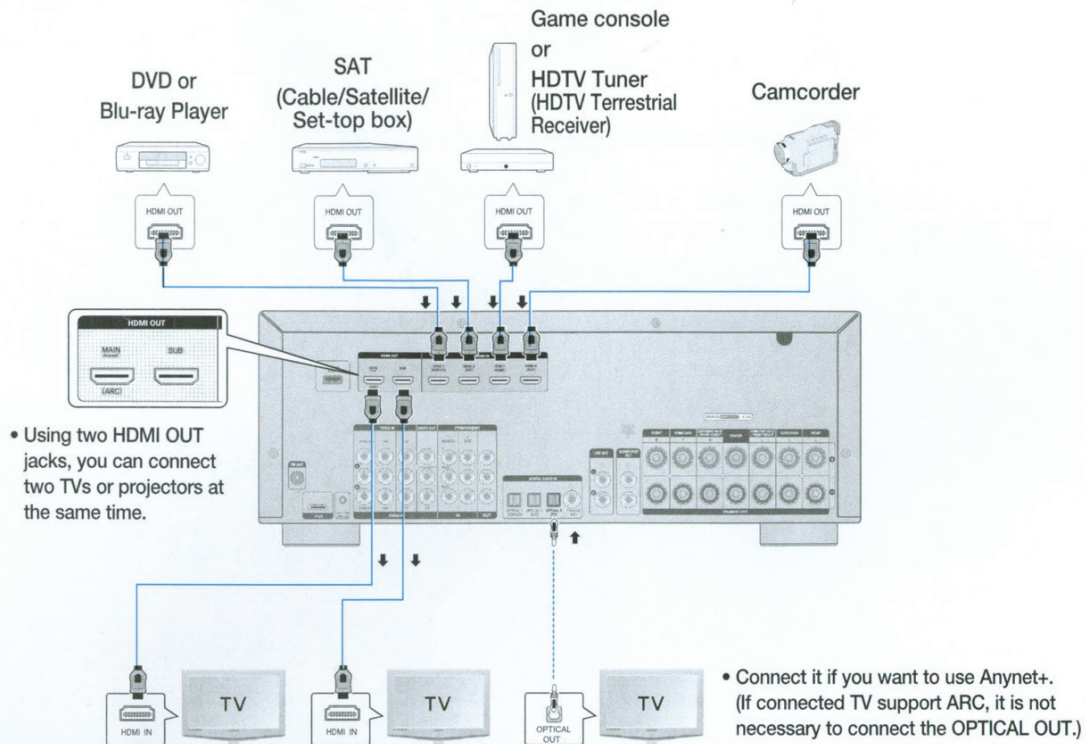
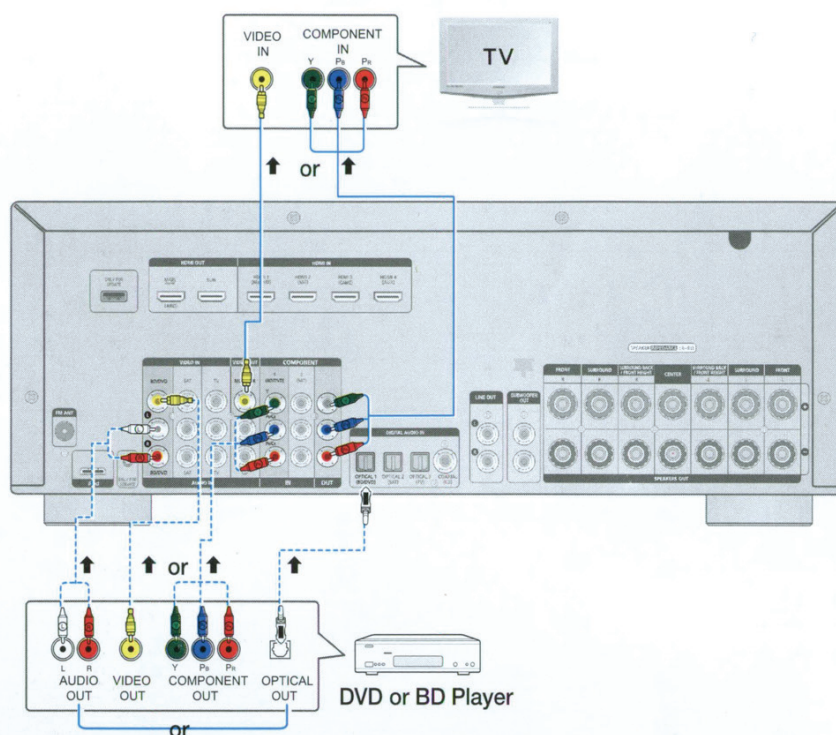DVD or Blu-ray Player • SAT (Cable/Satellite/Set-top box) • Game console or HDTV Tuner (HDTV Terrestrial Receiver) • Camcorder

• Using two HDMI OUT jacks, you can connect two TVs or projectors at the same time.

• Connect it if you want to use Anynet+. (If connected TV support ARC, it is not necessary to connect the OPTICAL OUT.)

✎ NOTE

- Audio from SACD discs will not be heard with this connection. To play a DVD disc whose copyright is protected by CPPM, use a player supporting CPPM.
- The quality of the audio output through the HDMI jack (sampling frequency and bit rate) may be limited by the performance of the connected device.
- Since HDMI connection supports both video and audio, you don't have to connect an additional audio cable.

Connecting to your TV

VIDEO IN • COMPONENT IN • or • OPTICAL OUT • AUDIO OUT

Connecting a DVD or BD(Blu-ray) Player
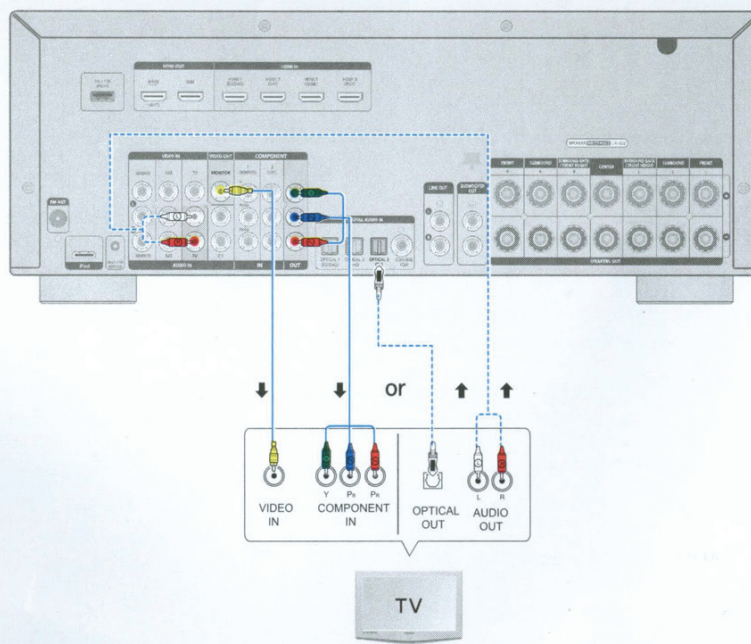
DVD or BD Player

Connecting a Cable, Satellite or Set-top Box

SAT(Cable/Satellite/Set-top box)
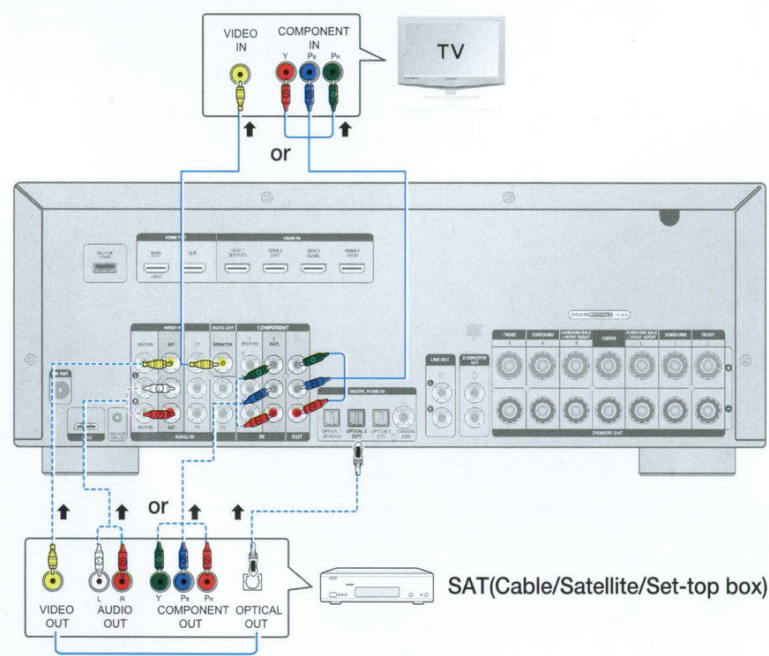
✎ NOTE

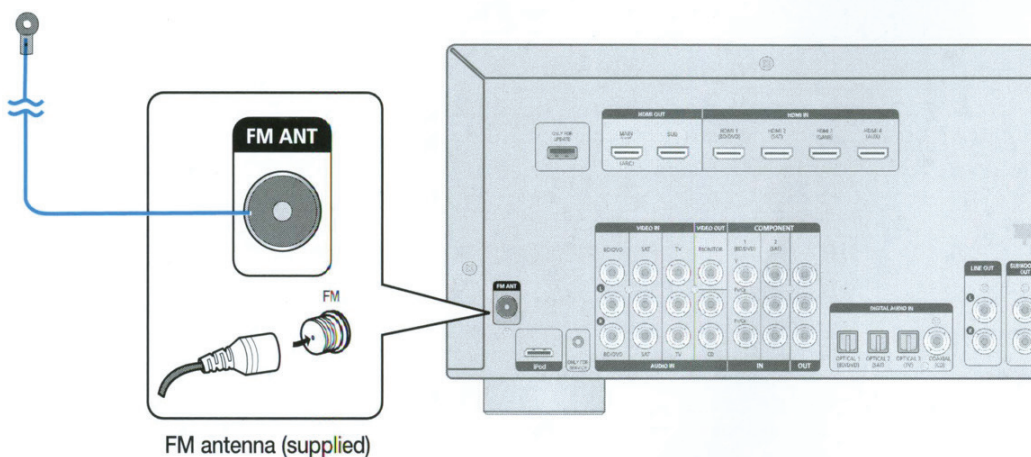▪ Disconnect the power plug from the outlet if you will not use this unit for a long period of time.
▪ If the cable/set-top box has only one audio output jack, connect it to either the right or left audio input jack of the main unit. Connect the audio cable's red plug to the red jack and white cable to the white jack.

Connecting a CD Player
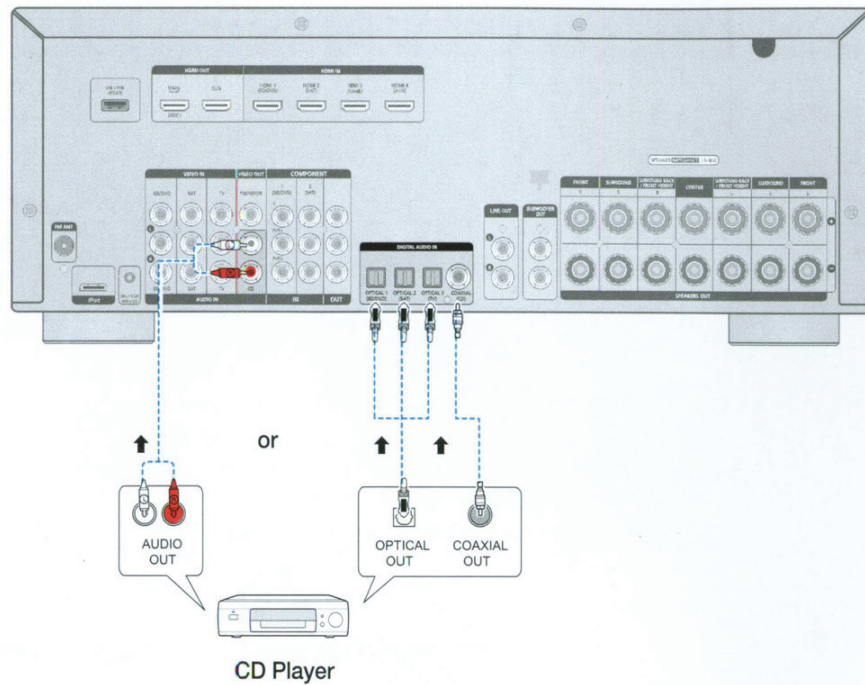
CD Player

✎ NOTE
- If the CD player has only one audio output jack, connect it to either the right or left audio input jack of the main unit.

Connecting the FM Antenna

1. Connect the FM antenna supplied to the FM ANTENNA terminal as a temporary measure.
2. Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

FM antenna (supplied)

✎ NOTE
- Do not place the antenna cable close to the power cord. Keep it as far away as possible.
- If you experience poor FM reception, use an external antenna.

AH68-02354U

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